Index of Papers Published in 1988

Author Index

A

Abu-Khamsin, S.A. *et al.*: *Reaction Kinetics of Fuel Formation for In-Situ Combustion*, (Tech. Paper SPE 15736) SPERE Nov., 88 1308-1316

Ahmed, G. *et al.*: *An Experimental Study of Waterflooding From a Two-Dimensional Layered Sand Model*, (Tech. Paper SPE 13599) SPERE Feb., 88 45-54

Ahmed, T.H.: *Comparative Study of Eight Equations of State for Predicting Hydrocarbon Volumetric Phase Behavior*, (Tech. Paper SPE 15673) SPERE Feb., 88 337-348

Al-Hashim, H.S. and Bass, D.M.: *Effect of Aquifer Size on the Performance of Partial Waterdrive Gas Reservoirs*, (Tech. Paper SPE 13233) SPERE May, 88 380-386

Al-Hashim, H.S. *et al.*: *Bottomwater Drive in Tarmat Reservoirs*, (Tech. Paper SPE 15687) SPERE May, 88 395-400

Al-Kaabi, A.U. *et al.*: *Bottomwater Drive in Tarmat Reservoirs*, (Tech. Paper SPE 15687) SPERE May, 88 395-400

Al-Marhoun, M.A. *et al.*: *Bottomwater Drive in Tarmat Reservoirs*, (Tech. Paper SPE 15687) SPERE May, 88 395-400

Allard, D.R. and Chen, S.M.: *Calculation of Water Influx for Bottomwater Drive Reservoirs*, (Tech. Paper SPE 13170) SPERE May, 88 369-379

Ammer, J.R. *et al.*: *Economic Evaluation of a CO2 EOR Flood at the Rock Creek Field, Roane County, West Virginia*, (Tech. Paper SPE 15955) SPERE Aug., 88 829-834

Andersen, M.A.: *Predicting Reservoir-Condition PV Compressibility From Hydrostatic-Stress Laboratory Data*, (Tech. Paper SPE 14213) SPERE Aug., 88 1078-1082

Anthony, T. and Chase, R.W.: *A Simplified Method for Determining Gas-Well Deliverability*, (Tech. Paper SPE 14507) SPERE Aug., 88 1090-1096

Arya, A. *et al.*: *Dispersion and Reservoir Heterogeneity*, (Tech. Paper SPE 14364) SPERE Feb., 88 139-148

Asar, H. and Handy, L.L.: *Influence of Interfacial Tension on Gas/Oil Relative Permeability in a Gas-Condensate System*, (Tech. Paper SPE 11740) SPERE Feb., 88 257-264

Asgarpour, S. *et al.*: *Re-Evaluation of Solvent Requirements for a Hydrocarbon Miscible Flood*, (Tech. Paper SPE 15572) SPERE Feb., 88 227-234

Audibert, A. and Monin, J.C.: *Thermal Cracking of Heavy-Oil/Mineral Matrix Systems*, (Tech. Paper SPE 16269) SPERE Nov., 88 1243-1250

Aziz, K. *et al.*: *EOS Predictions of Compressibility and Phase Behavior in Systems Containing Water, Hydrocarbons, and CO2*, (Tech. Paper SPE 15674) SPERE May, 88 673-684

Aziz, K. *et al.*: *Rate Dependence of Unstable Waterfloods*, (Tech. Paper SPE 14368) SPERE May, 88 401-409

B

Babu, D.K. and Odeh, A.S.: *Comparison of Solutions of the Nonlinear and Linearized Diffusion Equations*, (Tech. Paper SPE 17270) SPERE Nov., 88 1202-1206

Bae, J.H. and Syed, E.U.: *Glenn Pool Surfactant Flood Pilot Test: Part 2—Field Operations*, (Tech. Paper SPE 15551) SPERE Aug., 88 771-777

Bae, J.H. and Chou, S.I.: *Phase-Behavior Correlation for High-Salinity Surfactant Formulations*, (Tech. Paper SPE 14913) SPERE Aug., 88 778-790

Bahralolom, I. *et al.*: *Experimental Investigation of the Interaction of Phase Behavior With Microscopic Heterogeneity in a CO2 Flood*, (Tech. Paper SPE 14147) SPERE May, 88 662-672

Bahralolom, I.M. and Orr Jr., F.M.: *Solubility and Extraction in Multiple-Contact Miscible Displacements: Comparison of N2 and CO2 Flow Visualization Experiments*, (Tech. Paper SPE 15079) SPERE Feb., 88 213-219

Bankston, B.A. *et al.*: *An Experimental Investigation Into the Effects of Chemical Type on CO2/ Heavy-Hydrocarbon Phase Behavior*, (Tech. Paper SPE 16272) SPERE May, 88 711-719

Bardon, C. *et al.*: *Interpretation of a CO2/N2 Injection Field Test in a Moderately Fractured Carbonate Reservoir*, (Tech. Paper SPE 14942) SPERE Feb., 88 220-226

Barendregt, A.A. *et al.*: *Skjold Field, Danish North Sea: Early Evaluations of Oil Recovery Through Water Imbibition in a Fractured Reservoir*, (Tech. Paper SPE 15569) SPERE Feb., 88 17-22

Bass, D.M. and Al-Hashim, H.S.: *Effect of Aquifer Size on the Performance of Partial Waterdrive Gas Reservoirs*, (Tech. Paper SPE 13233) SPERE May, 88 380-386

Batesole, E.C. and Wilkes, J.O.: *Thermal Effects in Cyclic Operation of Storage Reservoirs*, (Tech. Paper SPE 16864) SPERE Nov., 88 1295-1300

Batycky, J.P. and Wu, R.S.: *Pseudocomponent Characterization for Hydrocarbon Miscible Displacement*, (Tech. Paper SPE 15404) SPERE Aug., 88 875-883

Baviere, M. *et al.*: *Surfactants for EOR: Olefin Sulfonate Behavior at High Temperature and Hardness*, (Tech. Paper SPE 14933) SPERE May, 88 597-603

Bazin, B. *et al.*: *Surfactants for EOR: Olefin Sulfonate Behavior at High Temperature and Hardness*, (Tech. Paper SPE 14933) SPERE May, 88 597-603

Behrens, R.A. and Sandler, S.I.: *Use of a Semicontinuous Description To Model the C7+ Fraction in Equation of State Calculations*, (Tech. Paper SPE 14925) SPERE Aug., 88 1041-1047

Benmekki, E.H. and Mansoori, G.A.: *Minimum Miscibility Pressure Prediction With Equations of State*, (Tech. Paper SPE 15677) SPERE May, 88 559-564

Bertero, L. *et al.*: *Chemical Equilibrium Models: Their Use in Simulating the Injection of Incompatible Waters*, (Tech. Paper SPE 14126) SPERE Feb., 88 288-294

Bhaskar, R.K. *et al.*: *The Effects of Shear History on the Gelation of Polyacrylamide/Chromium(VI)/Thiourea Solutions*, (Tech. Paper SPE 17472) SPERE Nov., 88 1251-1256

Blaskovich, F.T. *et al.*: *Numerical Simulation of Naturally Fractured Reservoirs*, (Tech. Paper SPE 15627) SPERE Nov., 88 1114-1122

Blick, E.F. and Civan, F.: *Porous-Media Momentum Equation for Highly Accelerated Flow*, (Tech. Paper SPE 16202) SPERE Aug., 88 1048-1052

Boone, D.A. *et al.*: *Economic Evaluation of a CO2 EOR Flood at the Rock Creek Field, Roane County, West Virginia*, (Tech. Paper SPE 15955) SPERE Aug., 88 829-834

Bouchard, A.J. *et al.*: *A Polynomial Approach to the van Everdingen-Hurst Dimensionless Variables for Water Encroachment*, (Tech. Paper SPE 15433) SPERE Feb., 88 320-326

Bousquet, G. *et al.*: *Application of Unconventional Techniques in Constructing an Integrated Reservoir Simulation Model for Troll Field*, (Tech. Paper SPE 15623) SPERE Aug., 88 967-976

Brandt, H. and Lai, W.: *A Pressure-History-Matching Method for Determination of Relative Permeabilities*, (Tech. Paper SPE 13928) SPERE May, 88 651-661

Bretz, R.E. *et al.*: *Experimental Investigation of the Interaction of Phase Behavior With Microscopic Heterogeneity in a CO2 Flood*, (Tech. Paper SPE 14147) SPERE May, 88 662-672

Bretz, R.E. *et al.*: *Effect of Pore Structure on Miscible Displacement in Laboratory Cores*, (Tech. Paper SPE 15017) SPERE Aug., 88 857-866

Brigham, W. E.: *Estimating Reservoir Parameters From the Gas Backpressure Equation*, (Tech. Paper SPE 13302) SPERE May, 88 649-650

Brigham, W.E. *et al.*: *Reaction Kinetics of Fuel Formation for In-Situ Combustion*, (Tech. Paper SPE 15736) SPERE Nov., 88 1308-1316

Brigham, W.E. *et al.*: *An Experimental Study of Waterflooding From a Two-Dimensional Layered Sand Model*, (Tech. Paper SPE 13599) SPERE Feb., 88 45-54

Brigham, W.E.: *Author's Reply to Discussions of Estimating Reservoir Parameters From the Gas Backpressure Equation*, (Tech. Paper, Rebuttal SPE 18725) SPERE Nov., 88 1330

Brinlee, L. *et al.*: *Review of CO2 Flood, Springer "A" Sand, Northeast Purdy Unit, Garvin County, Oklahoma*, (Tech. Paper SPE 14938) SPERE Nov., 88 1161-1167

Bron, J. *et al.*: *Radioactive Tracers Monitor Solvent Spreading in Rainbow Vertical Hydrocarbon Miscible Flood*, (Tech. Paper SPE 14440) SPERE Feb., 88 273-280

Brown, A. and Marriott, F.T.: *Use of Tracers To Investigate Drilling-Fluid Invasion and Oil Flushing During Coring*, (Tech. Paper SPE 16352) SPERE Nov., 88 1317-1322

Brummert, A.C. *et al.*: *Economic Evaluation of a CO2 EOR Flood at the Rock Creek Field, Roane County, West Virginia*, (Tech. Paper SPE 15955) SPERE Aug., 88 829-834

Bryant, D.W. and Monger, T.G.: *Multiple-Contact Phase Behavior Measurement and Application With Mixtures of CO2 and Highly Asphaltic Crude*, (Tech. Paper SPE 14438) SPERE May, 88 701-710

Bryant, R.S. and Douglas, J.: *Evaluation of Microbial Systems in Porous Media for EOR*, (Tech. Paper SPE 16284) SPERE May, 88 489-495

C

Cable, C.L. *et al.*: *A Polynomial Approach to the van Everdingen-Hurst Dimensionless Variables for Water Encroachment*, (Tech. Paper SPE 15433) SPERE Feb., 88 320-326

Card, C.C. *et al.*: *Re-Evaluation of Solvent Requirements for a Hydrocarbon Miscible Flood*, (Tech. Paper SPE 15572) SPERE Feb., 88 227-234

Carroll, H.B. and Fanchi, J.R.: *Evaluation of the Wilmington Field Micellar/Polymer Project*, (Tech. Paper SPE 12681) SPERE May, 88 609-616

Castanier, L.M. *et al.*: *An Experimental Study of Waterflooding From a Two-Dimensional Layered Sand Model*, (Tech. Paper SPE 13599) SPERE Feb., 88 45-54

Casteel, J.F. and Djabbarah, N.F.: *Sweep Improvement in CO2 Flooding by Use of Foaming Agents*, (Tech. Paper SPE 14392) SPERE Nov., 88 1186-1192

Chaback, J.J. and Williams, M.L.: *Phase Equilibria in the SACROC Oil/CO2 System*, (Tech. Paper SPE 14923) SPERE Feb., 88 103-111

Chase, R.W. and Anthony, T.: *A Simplified Method for Determining Gas-Well Deliverability*, (Tech. Paper SPE 14507) SPERE Aug., 88 1090-1096

Chatzis, I. *et al.*: *Effect of Capillary Number on the Microstructure of Residual Oil in Strongly Water-Wet Sandstones*, (Tech. Paper SPE 13213) SPERE Aug., 88 902-912

Chatzis, I. *et al.*: *Entrapment and Mobilization of Residual Oil in Bead Packs*, (Tech. Paper SPE 14423) SPERE Aug., 88 927-934

Chen, S.M. and Allard, D.R.: *Calculation of Water Influx for Bottomwater Drive Reservoirs*, (Tech. Paper SPE 13170) SPERE May, 88 369-379

Chen, Z.-X.: *Some Invariant Solutions to Two-Phase Fluid Displacement Problems Including Capillary Effect*, (Tech. Paper SPE 14874) SPERE May, 88 691-700

Chierici, G.L. *et al.*: *Chemical Equilibrium Models: Their Use in Simulating the Injection of Incompatible Waters*, (Tech. Paper SPE 14126) SPERE Feb., 88 288-294

Chikhliwala, E.D. and Yortsos, Y.C.: *Investigations on Viscous Fingering by Linear and Weakly Nonlinear Stability Analysis*, (Tech. Paper SPE 14367) SPERE Nov., 88 1268-1278

Chou, S.I. and Bae, J.H.: *Phase-Behavior Correlation for High-Salinity Surfactant Formulations*, (Tech. Paper SPE 14913) SPERE Aug., 88 778-790

Chow, A.K. and Ito, Y.: *A Field Scale In-Situ Combustion Simulator With Channeling Considerations*, (Tech. Paper SPE 13220) SPERE May, 88 419-430

Chung, F.T.H. *et al.*: *Measurements and Correlations of the Physical Properties of CO2/Heavy-Crude-Oil Mixtures*, (Tech. Paper SPE 15080) SPERE Aug., 88 822-828

Civan, F. *et al.*: *Relative Permeabilities at Simulated Reservoir Conditions*, (Tech. Paper SPE 16970) SPERE Nov., 88 1323-1327

Civan, F. and Blick, E.F.: *Porous-Media Momentum Equation for Highly Accelerated Flow*, (Tech. Paper SPE 16202) SPERE Aug., 88 1048-1052

Claridge, E.L. and Stoneberger, M.W.: *Graded-Viscosity-Bank Design With Pseudoplastic Fluids*, (Tech. Paper SPE 14230) SPERE Nov., 88 1221-1232

Closmann, P.J. *et al.*: *Steady-State Tar/Water Relative Permeabilities in Peace River Cores at Elevated Temperature*, (Tech. Paper SPE 14227) SPERE Feb., 88 76-80

Coma, J.M. and Monger, T.G.: *A Laboratory and Field Evaluation of the CO2 Huff'n'Puff Process for Light-Oil Recovery*, (Tech. Paper SPE 15501) SPERE Nov., 88 1168-1176

Corre, B. and Quettier, L.: *Hot-Water and Steamflood Laboratory Experiments Under Reservoir Conditions*, (Tech. Paper SPE 15650) SPERE Feb., 88 149-157

Costa, A. *et al.*: *Analysis of Heavy-Oil Immiscible CO2 Tertiary Coreflood Data*, (Tech. Paper SPE 14901) SPERE Feb., 88 69-75

Couve de Murvill, E. *et al.*: *Interpretation of a CO2/N2 Injection Field Test in a Moderately Fractured Carbonate Reservoir*, (Tech. Paper SPE 14942) SPERE Feb., 88 220-226

D

Datta Gupta, A. *et al.*: *Effects of Reservoir Heterogeneity on Chemically Enhanced Oil Recovery*, (Tech. Paper SPE 14889) SPERE May, 88 479-488

Dawe, R.A. and Wheat, M.R.: *Transverse Dispersion in Slug-Mode Chemical EOR Processes in Stratified Porous Media*, (Tech. Paper SPE 14890) SPERE May, 88 466-478

Dawe, R.A. and Lambeth, N.: *Boundary and Crossflow Behavior During Displacement in Nodal Systems*, (Tech. Paper SPE 16972) SPERE Nov., 88 1137-1142

DeHolleben, C.R.C. *et al.*: *A Solvent Extraction Approach to Oil-Recovery Calculations From Laboratory Displacement Tests*, (Tech. Paper SPE 16322) SPERE Aug., 88 1057-1060

Dean, R.H. and Lo, L.L.: *Simulations of Naturally Fractured Reservoirs*, (Tech. Paper SPE 14110) SPERE May, 88 638-648

Deeds, C.T. *et al.*: *Steady-State Tar/Water Relative Permeabilities in Peace River Cores at Elevated Temperature*, (Tech. Paper SPE 14227) SPERE Feb., 88 76-80

Denoyelle, L.C. *et al.*: *Interpretation of a CO2/N2 Injection Field Test in a Moderately Fractured Carbonate Reservoir*, (Tech. Paper SPE 14942) SPERE Feb., 88 220-226

Desbarats, A.: *Estimation of Effective Permeabilites in the Lower Stevens Formation of the Paloma Field, San Joaquin Valley, California*, (Tech. Paper SPE 15907) SPERE Nov., 88 1301-1307

Dietrich, J.K.: *The Kern River Horizontal-Well Steam Pilot*, (Tech. Paper SPE 16346) SPERE Aug., 88 935-944

Djabbarah, N.F. and Casteel, J.F.: *Sweep Improvement in CO2 Flooding by Use of Foaming Agents*, (Tech. Paper SPE 14392) SPERE Nov., 88 1186-1192

Doll, T.E.: *An Update of the Polymer-Augmented Alkaline Flood at the Isenhour Unit, Sublette County, Wyoming*, (Tech. Paper SPE 14954) SPERE May, 88 604-608

Donaldson, E.C. *et al.*: *Relative Permeabilities at Simulated Reservoir Conditions*, (Tech. Paper SPE 16970) SPERE Nov., 88 1323-1327

Douglas, J. and Bryant, R.S.: *Evaluation of Microbial Systems in Porous Media for EOR*, (Tech. Paper SPE 16284) SPERE May, 88 489-495

Drohm, J.K. and Schlijper, A.G.: *Inverse Lumping: Estimating Composition Data From Lumped Information*, (Tech. Paper SPE 14267) SPERE Aug., 88 1083-1089

Duong, A.N.: *Discussion of Estimating Reservoir Parameters From the Gas Backpressure Equation*, (Tech. Paper, Discussion SPE 18599) SPERE Nov., 88 1328

Dymond, P. F. and Spurr, P.R.: *Magnus Field: Surfactant Stimulation of Water-Injection Wells*, (Tech. Paper SPE 13980) SPERE Feb., 88 165-174

E

Earlougher, R.C. *et al.*: *Analysis of Heavy-Oil Immiscible CO2 Tertiary Coreflood Data*, (Tech. Paper SPE 14901) SPERE Feb., 88 69-75

Ehrlich, R. and Oak, M.J.: *A New X-Ray Absorption Method for Measurement of Three-Phase Relative Permeability*, (Tech. Paper SPE 14420) SPERE Feb., 88 199-206

Eisenstat, S.C. *et al.*: *Block-Preconditioned Conjugate-Gradient-Like Methods for Numerical Reservoir Simulation*, (Tech. Paper SPE 13534) SPERE Feb., 88 307-312

El Khatib, N.: *Discussion of Tarmat Behavior Under Water Injection in a Reservoir With Two Intersecting Faults*, (Tech. Paper, Discussion SPE 18604) SPERE Nov., 88 1331-1332

Elman, H. *et al.*: *Block-Preconditioned Conjugate-Gradient-Like Methods for Numerical Reservoir Simulation*, (Tech. Paper SPE 13534) SPERE Feb., 88 307-312

Engell-Jensen, M. *et al.*: *Skjold Field, Danish North Sea: Early Evaluations of Oil Recovery Through Water Imbibition in a Fractured Reservoir*, (Tech. Paper SPE 15569) SPERE Feb., 88 17-22

Enick, R.M. *et al.*: *Effect of an Aqueous Phase on CO2/Tetradecane and CO2/Maljamar-Crude-Oil Systems*, (Tech. Paper SPE 15400) SPERE May, 88 533-541

Enick, R.M. *et al.*: *The Statistical and Dimensionless-Time Analog to the Generalized Dykstra-Parsons Method*, (Tech. Paper SPE 14523) SPERE Feb., 88 313-319

Enick, R.M. *et al.*: *A Thermodynamic Correlation for the Minimum Miscibility Pressure in CO2 Flooding of Petroleum Reservoirs*, (Tech. Paper SPE 14518) SPERE Feb., 88 81-92

Ertekin, T. and King, G.R.: *Comparative Evaluation of Vertical and Horizontal Drainage Wells for the Degasification of Coal Seams*, (Tech. Paper SPE 13091) SPERE May, 88 720-734

Eylander, J.G.R.: *Suspended Solids Specifications for Water Injection From Coreflood Tests*, (Tech. Paper SPE 16256) SPERE Nov., 88 1287-1294

F

Falcone Jr., J.S. and Krumrine, P.H.: *Rock Dissolution and Consumption Phenomena in an Alkaline Recovery System*, (Tech. Paper SPE 12670) SPERE Feb., 88 62-68

Falls, A.H. *et al.*: *Effects of Capillary Pressure on Coalescence and Phase Mobilities in Foams Flowing Through Porous Media*, (Tech. Paper SPE 15442) SPERE Aug., 88 919-926

Falls, A.H. *et al.*: *Development of a Mechanistic Foam Simulator: The Population Balance and Generation by Snap-Off*, (Tech. Paper SPE 14961) SPERE Aug., 88 884-892

Fanchi, J.R. and Carroll, H.B.: *Evaluation of the Wilmington Field Micellar/Polymer Project*, (Tech. Paper SPE 12681) SPERE May, 88 609-616

Farouq-Ali, S.M. and Rojas, G.: *Dynamics of Subcritical CO2/Brine Floods for Heavy-Oil Recovery*, (Tech. Paper SPE 13598) SPERE Feb., 88 35-44

Fayers, F.J. and Newley, T.M.J.: *Detailed Validation of an Empirical Model for Viscous Fingering With Gravity Effects*, (Tech. Paper SPE 15993) SPERE May, 88 542-550

Fayers, F.J.: *An Approximate Model With Physically Interpretable Parameters for Representing Miscible Viscous Fingering*, (Tech. Paper SPE 13166) SPERE May, 88 551-558

Ferreira, P.A. *et al.*: *A Solvent Extraction Approach to Oil-Recovery Calculations From Laboratory Displacement Tests*, (Tech. Paper SPE 16322) SPERE Aug., 88 1057-1060

Firoozabadi, A. *et al.*: *EOS Predictions of Compressibility and Phase Behavior in Systems Containing Water, Hydrocarbons, and CO2*, (Tech. Paper SPE 15674) SPERE May, 88 673-684

Firoozabadi, A. *et al.*: *Surface Tension of Reservoir Crude-Oil/Gas Systems Recognizing the Asphalt in the Heavy Fraction*, (Tech. Paper SPE 13826) SPERE Feb., 88 265-272

Fishback, R.E. *et al.*: *Phase Behavior of Several CO2/West-Texas-Reservoir-Oil Systems*, (Tech. Paper SPE 13117) SPERE May, 88 505-516

Fishlock, T.P. *et al.*: *Experimental Studies on Waterflood Residual Gas Saturation and Its Production by Blowdown*, (Tech. Paper SPE 15455) SPERE May, 88 387-394

Flock, D.L. and Nouar, A.: *Prediction of the Minimum Miscibility Pressure of a Vaporizing Gas Drive*, (Tech. Paper SPE 15075) SPERE Feb., 88 182-198

Fogler, H.S. *et al.*: *Capacitance Effects in Porous Media*, (Tech. Paper SPE 16707) SPERE Nov., 88 1207-1214

Fox, M.J. *et al.*: *Review of CO2 Flood, Springer "A" Sand, Northeast Purdy Unit, Garvin County, Oklahoma*, (Tech. Paper SPE 14938) SPERE Nov., 88 1161-1167

G

Gajdica, R.J. *et al.*: *A New Method of Matching Aquifer Performance and Determining Original Gas in Place*, (Tech. Paper SPE 16935) SPERE Aug., 88 985-994

Garrison, W.H. and Holm, L.W.: *CO2 Diversion With Foam in an Immiscible CO2 Field Project*, (Tech. Paper SPE 14963) SPERE Feb., 88 112-118

Gauglitz, D.A. *et al.*: *Development of a Mechanistic Foam Simulator: The Population Balance and Generation by Snap-Off*, (Tech. Paper SPE 14961) SPERE Aug., 88 884-892

Genrich, J.F. and Pope, G.A.: *A Simplified Performance-Predictive Model for In-Situ Combustion Processes*, (Tech. Paper SPE 14242) SPERE May, 88 410-418

Godbole, S.P. and Kamath, V.A.: *An Analytic Model for Analyzing the Effects of Dissociation of Hydrates on the Thermal Recovery of Heavy Oils*, (Tech. Paper SPE 14224) SPERE May, 88 449-456

Gottardi, G. *et al.*: *Chemical Equilibrium Models: Their Use in Simulating the Injection of Incompatible Waters*, (Tech. Paper SPE 14126) SPERE Feb., 88 288-294

Green, D.W. *et al.*: *Size-Exclusion Chromatography in the Measurement of Concentration and Molecular Weight of Some EOR Polymers*, (Tech. Paper SPE 14949) SPERE Aug., 88 835-841

Grigg, R.B. and Harmon, R.A.: *Vapor-Density Measurement for Estimating Minimum Miscibility Pressure*, (Tech. Paper SPE 15403) SPERE Nov., 88 1215-1220

Grogan, A.T. *et al.*: *Diffusion of CO2 at Reservoir Conditions: Models and Measurements*, (Tech. Paper SPE 14897) SPERE Feb., 88 93-102

H

Hackett, J.L. and Miller, C.A.: *Microemulsion to Liquid-Crystal Transition in Two Anionic Surfactant Systems*, (Tech. Paper SPE 15653) SPERE Aug., 88 791-800

Handy, L.L. and Asar, H.: *Influence of Interfacial Tension on Gas/Oil Relative Permeability in a Gas-Condensate System*, (Tech. Paper SPE 11740) SPERE Feb., 88 257-264

Harmon, R.A. and Grigg, R.B.: *Vapor-Density Measurement for Estimating Minimum Miscibility Pressure*, (Tech. Paper SPE 15403) SPERE Nov., 88 1215-1220

Hartman, K.J. and Shu, W.R.: *Effect of Solvent on Steam Recovery of Heavy Oil*, (Tech. Paper SPE 14223) SPERE May, 88 457-465

Haugan, P.M. *et al.*: *Application of Unconventional Techniques in Constructing an Integrated Reservoir Simulation Model for Troll Field*, (Tech. Paper SPE 15623) SPERE Aug., 88 967-976

Havig, S.O. *et al.*: *Application of Unconventional Techniques in Constructing an Integrated Reservoir Simulation Model for Troll Field*, (Tech. Paper SPE 15623) SPERE Aug., 88 967-976

Heisler, R.P.: *Interpretation of Radioactive Tracer Results in a Steamdrive Project*, (Tech. Paper SPE 15092) SPERE Feb., 88 281-287

Hewett, T.A. *et al.*: *Dispersion and Reservoir Heterogeneity*, (Tech. Paper SPE 14364) SPERE Feb., 88 139-148

Hirasaki, G.J. *et al.*: *Effects of Capillary Pressure on Coalescence and Phase Mobilities in Foams Flowing Through Porous Media*, (Tech. Paper SPE 15442) SPERE Aug., 88 919-926

Hirasaki, G.J. *et al.*: *Development of a Mechanistic Foam Simulator: The Population Balance and Generation by Snap-Off*, (Tech. Paper SPE 14961) SPERE Aug., 88 884-892

Holder, G.D. *et al.*: *A Thermodynamic Correlation for the Minimum Miscibility Pressure in CO2 Flooding of Petroleum Reservoirs*, (Tech. Paper SPE 14518) SPERE Feb., 88 81-92

Holm, L.W. and Huang, E.T.S.: *Effect of WAG Injection and Rock Wettability on Oil Recovery During CO2 Flooding*, (Tech. Paper SPE 15491) SPERE Feb., 88 119-129

Holm, L.W. and Garrison, W.H.: *CO2 Diversion With Foam in an Immiscible CO2 Field Project*, (Tech. Paper SPE 14963) SPERE Feb., 88 112-118

Holm, L.W. and O'Steen, B.L.: *Saturation Distributions During Displacements Generated by the Simultaneous Injection of Oil and Water*, (Tech. Paper SPE 15198) SPERE Feb., 88 130-138

Hong, K.C.: *Steamflood Strategies for a Steeply Dipping Reservoir*, (Tech. Paper SPE 15089) SPERE May, 88 431-439

Hong, K.C.: *Effects of Shutting In Injectors on Steamflood Performance*, (Tech. Paper SPE 16349) SPERE Aug., 88 945-952

Horne, R.N. and Masukawa, J.: *Application of the Boundary Integral Method to Immiscible Displacement Problems*, (Tech. Paper SPE 15136) SPERE Aug., 88 1069-1077

Hornof, V. and Morrow, N.R.: *Flow Visualization of the Effects of Interfacial Tension on Displacement*, (Tech. Paper SPE 14930) SPERE Feb., 88 251-256

Hsie, J.C. and Moore, J.S.: *The Quarantine Bay 4RC CO2 WAG Pilot Project: A Postflood Evaluation*, (Tech. Paper SPE 15498) SPERE Aug., 88 809-814

Huang, E.T.S. and Holm, L.W.: *Effect of WAG Injection and Rock Wettability on Oil Recovery During CO2 Flooding*, (Tech. Paper SPE 15491) SPERE Feb., 88 119-129

Hubbard, S. *et al.*: *Experimental and Theoretical Investigation of Time-Setting Polymer Gels in Porous Media*, (Tech. Paper SPE 14959) SPERE Nov., 88 1257-1267

Hughes, D.S. and Murphy, P.: *Use of a Monte Carlo Method To Simulate Unstable Miscible and Immiscible Flow Through Porous Media*, (Tech. Paper SPE 17474) SPERE Nov., 88 1129-1136

Hunt, J.A. *et al.*: *Size-Exclusion Chromatography in the Measurement of Concentration and Molecular Weight of Some EOR Polymers*, (Tech. Paper SPE 14949) SPERE Aug., 88 835-841

I

Isaacs, E.E. *et al.*: *Investigation of Foam Stability in Porous Media at Elevated Temperatures*, (Tech. Paper SPE 15647) SPERE May, 88 565-572

Ito, Y. and Chow, A.K.: *A Field Scale In-Situ Combustion Simulator With Channeling Considerations*, (Tech. Paper SPE 13220) SPERE May, 88 419-430

J

Jasti, J.K. *et al.*: *Capacitance Effects in Porous Media*, (Tech. Paper SPE 16707) SPERE Nov., 88 1207-1214

Jensen, J.A. and Radke, C.J.: *Chromatographic Transport of Alkaline Buffers Through Reservoir Rock*, (Tech. Paper SPE 14295) SPERE Aug., 88 849-856

Jensen, J.L. and Lake, L.W.: *The Influence of Sample Size and Permeability Distribution On Heterogeneity Measures*, (Tech. Paper SPE 15434) SPERE May, 88 629-637

Jhaveri, B.S. and Youngren, G.K.: *Three-Parameter Modification of the Peng-Robinson Equation of State To Improve Volumetric Predictions*, (Tech. Paper SPE 13118) SPERE Aug., 88 1033-1040

Jones, R.A. *et al.*: *Measurements and Correlations of the Physical Properties of CO2/Heavy-Crude-Oil Mixtures*, (Tech. Paper SPE 15080) SPERE Aug., 88 822-828

K

Kamath, V.A. and Godbole, S.P.: *An Analytic Model for Analyzing the Effects of Dissociation of Hydrates on the Thermal Recovery of Heavy Oils*, (Tech. Paper SPE 14224) SPERE May, 88 449-456

Katz, D. L. *et al.*: *Surface Tension of Reservoir Crude-Oil/Gas Systems Recognizing the Asphalt in the Heavy Fraction*, (Tech. Paper SPE 13826) SPERE Feb., 88 265-272

Kerig, P.D. *et al.*: *A Regression-Based Method for Estimating Relative Permeabilities From Displacement Experiments*, (Tech. Paper SPE 15064) SPERE Aug., 88 953-958

Khatib, Z.I. *et al.*: *Effects of Capillary Pressure on Coalescence and Phase Mobilities in Foams Flowing Through Porous Media*, (Tech. Paper SPE 15442) SPERE Aug., 88 919-926

Khorrami, P. and Radke, C.J.: *A Random-Scission Model for Chemical Degradation of Polymer Solutions*, (Tech. Paper SPE 15197) SPERE Feb., 88 349-352

King, G.R. and Ertekin, T.: *Comparative Evaluation of Vertical and Horizontal Drainage Wells for the Degasification of Coal Seams*, (Tech. Paper SPE 13091) SPERE May, 88 720-734

King, P. *et al.*: *Economic Evaluation of a CO2 EOR Flood at the Rock Creek Field, Roane County, West Virginia*, (Tech. Paper SPE 15955) SPERE Aug., 88 829-834

Klins, M.A. *et al.*: *A Polynomial Approach to the van Everdingen-Hurst Dimensionless Variables for Water Encroachment*, (Tech. Paper SPE 15433) SPERE Feb., 88 320-326

Kremesec Jr., V.J. *et al.*: *Laboratory Evaluation of a Crude-Oil-Sulfonate/Nonionic-Cosurfactant Micellar Fluid*, (Tech. Paper SPE 15651) SPERE Aug., 88 801-808

Kremesec Jr., V.J. and Sebastian, H.M.: *CO2 Displacements of Reservoir Oils From Long Berea Cores: Laboratory and Simulation Results*, (Tech. Paper SPE 14306) SPERE May, 88 496-504

Kremesec, V.J. and Tiffin, D.L.: *Mechanistic Study of Gravity-Assisted CO2 Flooding*, (Tech. Paper SPE 14895) SPERE May, 88 524-532

Krumrine, P.H. and Falcone Jr., J.S.: *Rock Dissolution and Consumption Phenomena in an Alkaline Recovery System*, (Tech. Paper SPE 12670) SPERE Feb., 88 62-68

Kuehne, D.L. and Potts, D.E.: *Strategy for Alkaline/Polymer Flood Design With Berea and Reservoir-Rock Corefloods*, (Tech. Paper SPE 14935) SPERE Nov., 88 1143-1152

Kuntamukkula, M.S. *et al.*: *Effect of Capillary Number on the Microstructure of Residual Oil in Strongly Water-Wet Sandstones*, (Tech. Paper SPE 13213) SPERE Aug., 88 902-912

Kydland, T. *et al.*: *Application of Unconventional Techniques in Constructing an Integrated Reservoir Simulation Model for Troll Field*, (Tech. Paper SPE 15623) SPERE Aug., 88 967-976

L

Lai, W. and Brandt, H.: *A Pressure-History-Matching Method for Determination of Relative Permeabilities*, (Tech. Paper SPE 13928) SPERE May, 88 651-661

Lake, L.W. *et al.*: *Dispersion and Reservoir Heterogeneity*, (Tech. Paper SPE 14364) SPERE Feb., 88 139-148

Lake, L.W. and Jensen, J.L.: *The Influence of Sample Size and Permeability Distribution On Heterogeneity Measures*, (Tech. Paper SPE 15434) SPERE May, 88 629-637

Lambeth, N. and Dawe, R.A.: *Boundary and Crossflow Behavior During Displacement in Nodal Systems*, (Tech. Paper SPE 16972) SPERE Nov., 88 1137-1142

Larson, R.G. *et al.*: *Dispersion and Reservoir Heterogeneity*, (Tech. Paper SPE 14364) SPERE Feb., 88 139-148

Lau, H.C. and O'Brien, S.M.: *Effects of Spreading and Nonspreading Oils on Foam Propagation Through Porous Media*, (Tech. Paper SPE 15668) SPERE Aug., 88 893-896

Lau, H.C. and O'Brien, S.M.: *Surfactant Transport Through Porous Media in Steam-Foam Processes*, (Tech. Paper SPE 14391) SPERE Nov., 88 1177-1185

Leone, J.A. and Scott, E.M.: *Characterization and Control of Formation Damage During Waterflooding of a High-Clay-Content Reservoir*, (Tech. Paper SPE 16234) SPERE Nov., 88 1279-1286

Lo, L.L. and Dean, R.H.: *Simulations of Naturally Fractured Reservoirs*, (Tech. Paper SPE 14110) SPERE May, 88 638-648

Lorenz, P.B. and Thornton, S.D.: *Role of Silicate and Aluminate Ions in the Reaction of Sodium Hydroxide With Reservoir Minerals*, (Tech. Paper SPE 16277) SPERE Nov., 88 1153-1160

M

Mangone, J. *et al.*: *Effect of an Aqueous Phase on CO2/Tetradecane and CO2/Maljamar-Crude-Oil Systems*, (Tech. Paper SPE 15400) SPERE May, 88 533-541

Manke, C.W. and Southwick, J.G.: *Molecular Degradation, Injectivity, and Elastic Properties of Polymer Solutions*, (Tech. Paper SPE 15652) SPERE Nov., 88 1193-1201

Mansoori, G.A. and Benmekki, E.H.: *Minimum Miscibility Pressure Prediction With Equations of State*, (Tech. Paper SPE 15677) SPERE May, 88 559-564

Marra, R.K. *et al.*: *Density of Crude Oil Saturated With CO2*, (Tech. Paper SPE 16350) SPERE Aug., 88 815-821

Marriott, F.T. and Brown, A.: *Use of Tracers To Investigate Drilling-Fluid Invasion and Oil Flushing During Coring*, (Tech. Paper SPE 16352) SPERE Nov., 88 1317-1322

Masukawa, J. and Horne, R.N.: *Application of the Boundary Integral Method to Immiscible Displacement Problems*, (Tech. Paper SPE 15136) SPERE Aug., 88 1069-1077

Maunder, J.D. *et al.*: *Investigation of Foam Stability in Porous Media at Elevated Temperatures*, (Tech. Paper SPE 15647) SPERE May, 88 565-572

Mayer, E.H. *et al.*: *Analysis of Heavy-Oil Immiscible CO2 Tertiary Coreflood Data*, (Tech. Paper SPE 14901) SPERE Feb., 88 69-75

McCarthy, F.C. *et al.*: *Investigation of Foam Stability in Porous Media at Elevated Temperatures*, (Tech. Paper SPE 15647) SPERE May, 88 565-572

McIntyre, F.J. *et al.*: *Radioactive Tracers Monitor Solvent Spreading in Rainbow Vertical Hydrocarbon Miscible Flood*, (Tech. Paper SPE 14440) SPERE Feb., 88 273-280

Melrose, J.C.: *Use of Water-Vapor Desorption Data in the Determination of Capillary Pressures at Low Water Saturations*, (Tech. Paper SPE 16286) SPERE Aug., 88 913-918

Menouar, H. *et al.*: *Bottomwater Drive in Tarmat Reservoirs*, (Tech. Paper SPE 15687) SPERE May, 88 395-400

Mesini, E. *et al.*: *Chemical Equilibrium Models: Their Use in Simulating the Injection of Incompatible Waters*, (Tech. Paper SPE 14126) SPERE Feb., 88 288-294

Metcalfe, R.S. *et al.*: *Compositional Gradients in the Anschutz Ranch East Field*, (Tech. Paper SPE 14412) SPERE Aug., 88 1025-1032

Metcalfe, R.S. *et al.*: *Phase Behavior of Several CO2/West-Texas-Reservoir-Oil Systems*, (Tech. Paper SPE 13117) SPERE May, 88 505-516

Mezzomo, R.F. *et al.*: *A Solvent Extraction Approach to Oil-Recovery Calculations From Laboratory Displacement Tests*, (Tech. Paper SPE 16322) SPERE Aug., 88 1057-1060

Michaels, K. F. and Udell, K.S.: *Foam Production During Steam Displacement of Aqueous Surfactants*, (Tech. Paper SPE 16335) SPERE Aug., 88 897-901

Miller, C.A. and Hackett, J.L.: *Microemulsion to Liquid-Crystal Transition in Two Anionic Surfactant Systems*, (Tech. Paper SPE 15653) SPERE Aug., 88 791-800

Miller, D.D. *et al.*: *Development of a Mechanistic Foam Simulator: The Population Balance and Generation by Snap-Off*, (Tech. Paper SPE 14961) SPERE Aug., 88 884-892

Miller, R.A. *et al.*: *The Statistical and Dimensionless-Time Analog to the Generalized Dykstra-Parsons Method*, (Tech. Paper SPE 14523) SPERE Feb., 88 313-319

Monger, T.G. and Coma, J.M.: *A Laboratory and Field Evaluation of the CO2 Huff'n'Puff Process for Light-Oil Recovery*, (Tech. Paper SPE 15501) SPERE Nov., 88 1168-1176

Monger, T.G. and Bryant, D.W.: *Multiple-Contact Phase Behavior Measurement and Application With Mixtures of CO2 and Highly Asphaltic Crude*, (Tech. Paper SPE 14438) SPERE May, 88 701-710

Monger, T.G. *et al.*: *An Experimental Investigation Into the Effects of Chemical Type on CO2/ Heavy-Hydrocarbon Phase Behavior*, (Tech. Paper SPE 16272) SPERE May, 88 711-719

Monin, J.C. and Audibert, A.: *Thermal Cracking of Heavy-Oil/ Mineral Matrix Systems*, (Tech. Paper SPE 16269) SPERE Nov., 88 1243-1250

Moore, J.S. and Hsie, J.C.: *The Quarantine Bay 4RC CO2 WAG Pilot Project: A Postflood Evaluation*, (Tech. Paper SPE 15498) SPERE Aug., 88 809-814

Mormino, G. *et al.*: *Chemical Equilibrium Models: Their Use in Simulating the Injection of Incompatible Waters*, (Tech. Paper SPE 14126) SPERE Feb., 88 288-294

Morris, R.W. *et al.*: *Compositional Gradients in the Anschutz Ranch East Field*, (Tech. Paper SPE 14412) SPERE Aug., 88 1025-1032

Morrow, N.R. and Hornof, V.: *Flow Visualization of the Effects of Interfacial Tension on Displacement*, (Tech. Paper SPE 14930) SPERE Feb., 88 251-256

Morrow, N.R. *et al.*: *Effect of Capillary Number on the Microstructure of Residual Oil in Strongly Water-Wet Sandstones*, (Tech. Paper SPE 13213) SPERE Aug., 88 902-912

Morrow, N.R. *et al.*: *Entrapment and Mobilization of Residual Oil in Bead Packs*, (Tech. Paper SPE 14423) SPERE Aug., 88 927-934

Morsi, B.I. *et al.*: *Effect of an Aqueous Phase on CO2/Tetradecane and CO2/Maljamar-Crude-Oil Systems*, (Tech. Paper SPE 15400) SPERE May, 88 533-541

Morsi, B.I. *et al.*: *A Thermodynamic Correlation for the Minimum Miscibility Pressure in CO2 Flooding of Petroleum Reservoirs*, (Tech. Paper SPE 14518) SPERE Feb., 88 81-92

Mumallah, N. A.: *Chromium (III) Propionate: A Crosslinking Agent for Water-Soluble Polymers in Hard Oilfield Brines*, (Tech. Paper SPE 15906) SPERE Feb., 88 243-250

Murphy, P. and Hughes, D.S.: *Use of a Monte Carlo Method To Simulate Unstable Miscible and Immiscible Flow Through Porous Media*, (Tech. Paper SPE 17474) SPERE Nov., 88 1129-1136

N

Natakki, R. *et al.*: *EOS Predictions of Compressibility and Phase Behavior in Systems Containing Water, Hydrocarbons, and CO2*, (Tech. Paper SPE 15674) SPERE May, 88 673-684

Negahban, S. *et al.*: *Modeling of Three-Phase Liquid/Liquid Equilibria*, (Tech. Paper SPE 14936) SPERE Aug., 88 1017-1024

Neveux, A.R. and Sakthikumar, S.: *Delineation and Evaluation of a North Sea Reservoir Containing Near-Critical Fluids*, (Tech. Paper SPE 15856) SPERE Aug., 88 842-848

Newley, T.M.J. and Fayers, F.J.: *Detailed Validation of an Empirical Model for Viscous Fingering With Gravity Effects*, (Tech. Paper SPE 15993) SPERE May, 88 542-550

Nghiem, L. X.: *An Integral Approach To Discretizing the Reservoir Flow Equations*, (Tech. Paper SPE 12727) SPERE May, 88 685-690

Nguyen, T. *et al.*: *Measurements and Correlations of the Physical Properties of CO2/Heavy-Crude-Oil Mixtures*, (Tech. Paper SPE 15080) SPERE Aug., 88 822-828

Noik, C. *et al.*: *Surfactants for EOR: Olefin Sulfonate Behavior at High Temperature and Hardness*, (Tech. Paper SPE 14933) SPERE May, 88 597-603

Northrup, E.J. and Woo, P.T.: *Application of Preconditioned Conjugate-Gradient-Like Methods in Reservoir Simulation*, (Tech. Paper SPE 13532) SPERE Feb., 88 295-301

Nouar, A. and Flock, D.L.: *Prediction of the Minimum Miscibility Pressure of a Vaporizing Gas Drive*, (Tech. Paper SPE 15075) SPERE Feb., 88 182-198

Numbere, D.T. and Tiab, D.: *An Improved Streamline-Generating Technique That Uses the Boundary (Integral) Element Method*, (Tech. Paper SPE 15135) SPERE Aug., 88 1061-1068

Nur, A.M. and Wang, Z.: *Effect of Temperature on Wave Velocities in Sands and Sandstones With Heavy Hydrocarbons*, (Tech. Paper SPE 15646) SPERE Feb., 88 158-164

O

O'Brien, S.M. and Lau, H.C.: *Effects of Spreading and Nonspreading Oils on Foam Propagation Through Porous Media*, (Tech. Paper SPE 15668) SPERE Aug., 88 893-896

O'Brien, S.M. and Lau, H.C.: *Surfactant Transport Through Porous Media in Steam-Foam Processes*, (Tech. Paper SPE 14391) SPERE Nov., 88 1177-1185

O'Steen, B.L. and Holm, L.W.: *Saturation Distributions During Displacements Generated by the Simultaneous Injection of Oil and Water*, (Tech. Paper SPE 15198) SPERE Feb., 88 130-138

Oak, M.J. and Ehrlich, R.: *A New X-Ray Absorption Method for Measurement of Three-Phase Relative Permeability*, (Tech. Paper SPE 14420) SPERE Feb., 88 199-206

Odeh, A.S. and Babu, D.K.: *Comparison of Solutions of the Nonlinear and Linearized Diffusion Equations*, (Tech. Paper SPE 17270) SPERE Nov., 88 1202-1206

Oen, P.M. *et al.*: *Skjold Field, Danish North Sea: Early Evaluations of Oil Recovery Through Water Imbibition in a Fractured Reservoir*, (Tech. Paper SPE 15569) SPERE Feb., 88 17-22

Orr Jr., F.M. and Bahralolom, I.M.: *Solubility and Extraction in Multiple-Contact Miscible Displacements: Comparison of N2 and CO2 Flow Visualization Experiments*, (Tech. Paper SPE 15079) SPERE Feb., 88 213-219

Orr Jr., F.M. *et al.*: *Experimental Investigation of the Interaction of Phase Behavior With Microscopic Heterogeneity in a CO2 Flood*, (Tech. Paper SPE 14147) SPERE May, 88 662-672

Orr Jr., F.M. *et al.*: *Effect of Pore Structure on Miscible Displacement in Laboratory Cores*, (Tech. Paper SPE 15017) SPERE Aug., 88 857-866

Orr Jr., F.M. *et al.*: *Diffusion of CO2 at Reservoir Conditions: Models and Measurements*, (Tech. Paper SPE 14897) SPERE Feb., 88 93-102

Osif, T.L.: *Effects of Salt, Gas, Temperature, and Pressure on the Compressibility of Water*, (Tech. Paper SPE 13174) SPERE Feb., 88 175-181

Osman, M.E.: *Tarmat Behavior Under Water Injection in a Reservoir With Two Intersecting Faults*, (Tech. Paper SPE 15981) SPERE Feb., 88 207-212

Osman, M.E.: *Author's Reply to Discussion of Tarmat Behavior Under Water Injection in a Reservoir With Two Intersecting Faults*, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov., 88 1332

P

Parmeswar, R. and Willhite, G.P.: *A Study of the Reduction of Brine Permeability in Berea Sandstone With the Aluminum Citrate Process*, (Tech. Paper SPE 13582) SPERE Aug., 88 959-966

Patzek, T.W. *et al.*: *Development of a Mechanistic Foam Simulator: The Population Balance and Generation by Snap-Off*, (Tech. Paper SPE 14961) SPERE Aug., 88 884-892

Pinczewski, V.W. *et al.*: *Diffusion of CO2 at Reservoir Conditions: Models and Measurements*, (Tech. Paper SPE 14897) SPERE Feb., 88 93-102

Poettmann, F.H. and Struna, S.M.: *In-Situ Combustion in the Lower Hospah Formation, McKinley County, New Mexico*, (Tech. Paper SPE 14917) SPERE May, 88 440-448

Poettmann, F.H. *et al.*: *Density of Crude Oil Saturated With CO2*, (Tech. Paper SPE 16350) SPERE Aug., 88 815-821

Poettmann, F.H.: *Discussion of Estimating Reservoir Parameters From the Gas Backpressure Equation*, (Tech. Paper, Discussion SPE 18608) SPERE Nov., 88 1328-1330

Polkowski, G. *et al.*: *Radioactive Tracers Monitor Solvent Spreading in Rainbow Vertical Hydrocarbon Miscible Flood*, (Tech. Paper SPE 14440) SPERE Feb., 88 273-280

Pollack, N.R. *et al.*: *Effect of an Aqueous Phase on CO2/Tetradecane and CO2/Maljamar-Crude-Oil Systems*, (Tech. Paper SPE 15400) SPERE May, 88 533-541

Pope, G.A. and Genrich, J.F.: *A Simplified Performance-Predictive Model for In-Situ Combustion Processes*, (Tech. Paper SPE 14242) SPERE May, 88 410-418

Pope, G.A. *et al.*: *Effects of Reservoir Heterogeneity on Chemically Enhanced Oil Recovery*, (Tech. Paper SPE 14889) SPERE May, 88 479-488

Potts, D.E. and Kuehne, D.L.: *Strategy for Alkaline/Polymer Flood Design With Berea and Reservoir-Rock Corefloods*, (Tech. Paper SPE 14935) SPERE Nov., 88 1143-1152

Pow, M.J. *et al.*: *Radioactive Tracers Monitor Solvent Spreading in Rainbow Vertical Hydrocarbon Miscible Flood*, (Tech. Paper SPE 14440) SPERE Feb., 88 273-280

Prudhomme, R.K. and Yoshimura, A.: *Viscosity Measurements in the Presence of Wall Slip in Capillary, Couette, and Parallel-Disk Geometries*, (Tech. Paper SPE 14696) SPERE May, 88 735-742

Pruess, K. and Wu, Y.S.: *A Multiple-Porosity Method for Simulation of Naturally Fractured Petroleum Reservoirs*, (Tech. Paper SPE 15129) SPERE Feb., 88 327-336

Q

Quettier, L. and Corre, B.: *Hot-Water and Steamflood Laboratory Experiments Under Reservoir Conditions*, (Tech. Paper SPE 15650) SPERE Feb., 88 149-157

R

Radke, C.J. and Ransohoff, T.C.: *Mechanisms of Foam Generation in Glass-Bead Packs*, (Tech. Paper SPE 15441) SPERE May, 88 573-585

Radke, C.J. and Thornton, S.D.: *Dissolution and Condensation Kinetics of Silica in Alkaline Solution*, (Tech. Paper SPE 13601) SPERE May, 88 743-752

Radke, C.J. and Khorrami, P.: *A Random-Scission Model for Chemical Degradation of Polymer Solutions*, (Tech. Paper SPE 15197) SPERE Feb., 88 349-352

Radke, C.J. and Jensen, J.A.: *Chromatographic Transport of Alkaline Buffers Through Reservoir Rock*, (Tech. Paper SPE 14295) SPERE Aug., 88 849-856

Ramey Jr., H.J. *et al.*: *Reaction Kinetics of Fuel Formation for In-Situ Combustion*, (Tech. Paper SPE 15736) SPERE Nov., 88 1308-1316

Ransohoff, T.C. and Radke, C.J.: *Mechanisms of Foam Generation in Glass-Bead Packs*, (Tech. Paper SPE 15441) SPERE May, 88 573-585

Raterman, K.T. *et al.*: *Laboratory Evaluation of a Crude-Oil-Sulfonate/Nonionic-Cosurfactant Micellar Fluid*, (Tech. Paper SPE 15651) SPERE Aug., 88 801-808

Ratulowski, T. *et al.*: *Development of a Mechanistic Foam Simulator: The Population Balance and Generation by Snap-Off*, (Tech. Paper SPE 14961) SPERE Aug., 88 884-892

Renner, T.A.: *Measurement and Correlation of Diffusion Coefficients for CO2 and Rich-Gas Applications*, (Tech. Paper SPE 15391) SPERE May, 88 517-523

Reznik, A.A. *et al.*: *The Statistical and Dimensionless-Time Analog to the Generalized Dykstra-Parsons Method*, (Tech. Paper SPE 14523) SPERE Feb., 88 313-319

Richmond, P.C. *et al.*: *A Regression-Based Method for Estimating Relative Permeabilities From Displacement Experiments*, (Tech. Paper SPE 15064) SPERE Aug., 88 953-958

Roberts, L.J. *et al.*: *Experimental and Theoretical Investigation of Time-Setting Polymer Gels in Porous Media*, (Tech. Paper SPE 14959) SPERE Nov., 88 1257-1267

Robertson, S.D.: *An Empirical Model for Microemulsion Phase Behavior*, (Tech. Paper SPE 14909) SPERE Aug., 88 1002-1016

Rojas, G. and Farouq-Ali, S.M.: *Dynamics of Subcritical CO2/Brine Floods for Heavy-Oil Recovery*, (Tech. Paper SPE 13598) SPERE Feb., 88 35-44

Ruskauff, G.J. *et al.*: *Diffusion of CO2 at Reservoir Conditions: Models and Measurements*, (Tech. Paper SPE 14897) SPERE Feb., 88 93-102

Ryles, R.G.: *Chemical Stability Limits of Water-Soluble Polymers Used in Oil Recovery Processes*, (Tech. Paper SPE 13585) SPERE Feb., 88 23-34

S

Sajjadian, V.A. *et al.*: *Surface Tension of Reservoir Crude-Oil/Gas Systems Recognizing the Asphalt in the Heavy Fraction*, (Tech. Paper SPE 13826) SPERE Feb., 88 265-272

Sakthikumar, S. and Neveux, A.R.: *Delineation and Evaluation of a North Sea Reservoir Containing Near-Critical Fluids*, (Tech. Paper SPE 15856) SPERE Aug., 88 842-848

Sammon, P.H.: *An Analysis of Upstream Differencing*, (Tech. Paper SPE 14045) SPERE Aug., 88 1053-1056

Sandler, S.I. and Behrens, R.A.: *Use of a Semicontinuous Description To Model the C7+ Fraction in Equation of State Calculations*, (Tech. Paper SPE 14925) SPERE Aug., 88 1041-1047

Schlijper, A.G. and Drohm, J.K.: *Inverse Lumping: Estimating Composition Data From Lumped Information*, (Tech. Paper SPE 14267) SPERE Aug., 88 1083-1089

Schultz, M.H. *et al.*: *Block-Preconditioned Conjugate-Gradient-Like Methods for Numerical Reservoir Simulation*, (Tech. Paper SPE 13534) SPERE Feb., 88 307-312

Scott, E.M. and Leone, J.A.: *Characterization and Control of Formation Damage During Waterflooding of a High-Clay-Content Reservoir*, (Tech. Paper SPE 16234) SPERE Nov., 88 1279-1286

Sebastian, H.M. and Kremesec Jr., V.J.: *CO2 Displacements of Reservoir Oils From Long Berea Cores: Laboratory and Simulation Results*, (Tech. Paper SPE 14306) SPERE May, 88 496-504

Sepehrnoori, K. *et al.*: *Effects of Reservoir Heterogeneity on Chemically Enhanced Oil Recovery*, (Tech. Paper SPE 14889) SPERE May, 88 479-488

Sharma, H. *et al.*: *Rate Dependence of Unstable Waterfloods*, (Tech. Paper SPE 14368) SPERE May, 88 401-409

Sheldon, D. *et al.*: *Rate Dependence of Unstable Waterfloods*, (Tech. Paper SPE 14368) SPERE May, 88 401-409

Shook, M. *et al.*: *Effects of Reservoir Heterogeneity on Chemically Enhanced Oil Recovery*, (Tech. Paper SPE 14889) SPERE May, 88 479-488

Shu, W.R. and Hartman, K.J.: *Effect of Solvent on Steam Recovery of Heavy Oil*, (Tech. Paper SPE 14223) SPERE May, 88 457-465

Sigmund, P. *et al.*: *Rate Dependence of Unstable Waterfloods*, (Tech. Paper SPE 14368) SPERE May, 88 401-409

Simlote, V.N. *et al.*: *Review of CO2 Flood, Springer "A" Sand, Northeast Purdy Unit, Garvin County, Oklahoma*, (Tech. Paper SPE 14938) SPERE Nov., 88 1161-1167

Simon, H.D.: *Incomplete LU Preconditioners for Conjugate-Gradient-Type Iterative Methods*, (Tech. Paper SPE 13533) SPERE Feb., 88 302-306

Singhal, A. *et al.*: *Re-Evaluation of Solvent Requirements for a Hydrocarbon Miscible Flood*, (Tech. Paper SPE 15572) SPERE Feb., 88 227-234

Smith, R.A. *et al.*: *Experimental Studies on Waterflood Residual Gas Saturation and Its Production by Blowdown*, (Tech. Paper SPE 15455) SPERE May, 88 387-394

Sonier, F. *et al.*: *Numerical Simulation of Naturally Fractured Reservoirs*, (Tech. Paper SPE 15627) SPERE Nov., 88 1114-1122

Soper, B.M. *et al.*: *Experimental Studies on Waterflood Residual Gas Saturation and Its Production by Blowdown*, (Tech. Paper SPE 15455) SPERE May, 88 387-394

Sorbie, K.S. *et al.*: *Experimental and Theoretical Investigation of Time-Setting Polymer Gels in Porous Media*, (Tech. Paper SPE 14959) SPERE Nov., 88 1257-1267

Soroosh, H. *et al.*: *Surface Tension of Reservoir Crude-Oil/Gas Systems Recognizing the Asphalt in the Heavy Fraction*, (Tech. Paper SPE 13826) SPERE Feb., 88 265-272

Souillard, P. *et al.*: *Numerical Simulation of Naturally Fractured Reservoirs*, (Tech. Paper SPE 15627) SPERE Nov., 88 1114-1122

Southwick, J.G. and Manke, C.W.: *Molecular Degradation, Injectivity, and Elastic Properties of Polymer Solutions*, (Tech. Paper SPE 15652) SPERE Nov., 88 1193-1201

Specter, R.M *et al.*: *Effect of Pore Structure on Miscible Displacement in Laboratory Cores*, (Tech. Paper SPE 15017) SPERE Aug., 88 857-866

Spivak, A. *et al.*: *Analysis of Heavy-Oil Immiscible CO2 Tertiary Coreflood Data*, (Tech. Paper SPE 14901) SPERE Feb., 88 69-75

Springer, S. *et al.*: *Re-Evaluation of Solvent Requirements for a Hydrocarbon Miscible Flood*, (Tech. Paper SPE 15572) SPERE Feb., 88 227-234

Spurr, P.R. and Dymond, P. F.: *Magnus Field: Surfactant Stimulation of Water-Injection Wells*, (Tech. Paper SPE 13980) SPERE Feb., 88 165-174

Stark, K. *et al.*: *Review of CO2 Flood, Springer "A" Sand, Northeast Purdy Unit, Garvin County, Oklahoma*, (Tech. Paper SPE 14938) SPERE Nov., 88 1161-1167

Starley, G.P.: *A Material-Balance Method for Deriving Interblock Water/Oil Pseudofunctions for Coarse-Grid Reservoir Simulation*, (Tech. Paper SPE 15621) SPERE Aug., 88 977-984

Startzman, R.A. *et al.*: *A New Method of Matching Aquifer Performance and Determining Original Gas in Place*, (Tech. Paper SPE 16935) SPERE Aug., 88 985-994

Stewart, L.D. and Udell, K.S.: *Mechanisms of Residual Oil Displacement by Steam Injection*, (Tech. Paper SPE 16333) SPERE Nov., 88 1233-1242

Stinson, J.A. *et al.*: *The Effects of Shear History on the Gelation of Polyacrylamide/Chromium(VI)/Thiourea Solutions*, (Tech. Paper SPE 17472) SPERE Nov., 88 1251-1256

Stoneberger, M.W. and Claridge, E.L.: *Graded-Viscosity-Bank Design With Pseudoplastic Fluids*, (Tech. Paper SPE 14230) SPERE Nov., 88 1221-1232

Struna, S.M. and Poettmann, F.H.: *In-Situ Combustion in the Lower Hospah Formation, McKinley County, New Mexico*, (Tech. Paper SPE 14917) SPERE May, 88 440-448

Syed, E.U. and Bae, J.H.: *Glenn Pool Surfactant Flood Pilot Test: Part 2—Field Operations*, (Tech. Paper SPE 15551) SPERE Aug., 88 771-777

T

Taber, J.T. *et al.*: *Entrapment and Mobilization of Residual Oil in Bead Packs*, (Tech. Paper SPE 14423) SPERE Aug., 88 927-934

Taggart, D.L. *et al.*: *Laboratory Evaluation of a Crude-Oil-Sulfonate/Nonionic-Cosurfactant Micellar Fluid*, (Tech. Paper SPE 15651) SPERE Aug., 88 801-808

Talley, L.D.: *Hydrolytic Stability of Alkylethoxy Sulfates*, (Tech. Paper SPE 14912) SPERE Feb., 88 235-242

Tan, T.B.: *Implementation of an Improved Adaptive-Implicit Method in a Thermal Compositional Simulator*, (Tech. Paper SPE 16028) SPERE Nov., 88 1123-1128

Tao, T.M. *et al.*: *A Regression-Based Method for Estimating Relative Permeabilities From Displacement Experiments*, (Tech. Paper SPE 15064) SPERE Aug., 88 953-958

Thiele, J.L. *et al.*: *The Effects of Shear History on the Gelation of Polyacrylamide/Chromium(VI)/Thiourea Solutions*, (Tech. Paper SPE 17472) SPERE Nov., 88 1251-1256

Thompson, R.S. *et al.*: *Density of Crude Oil Saturated With CO2*, (Tech. Paper SPE 16350) SPERE Aug., 88 815-821

Thornton, S.D. and Lorenz, P.B.: *Role of Silicate and Aluminate Ions in the Reaction of Sodium Hydroxide With Reservoir Minerals*, (Tech. Paper SPE 16277) SPERE Nov., 88 1153-1160

Thornton, S.D. and Radke, C.J.: *Dissolution and Condensation Kinetics of Silica in Alkaline Solution*, (Tech. Paper SPE 13601) SPERE May, 88 743-752

Tiab, D. and Numbere, D.T.: *An Improved Streamline-Generating Technique That Uses the Boundary (Integral) Element Method*, (Tech. Paper SPE 15135) SPERE Aug., 88 1061-1068

Tiffin, D.L. and Kremesec, V.J.: *Mechanistic Study of Gravity-Assisted CO2 Flooding*, (Tech. Paper SPE 14895) SPERE May, 88 524-532

Tripathy, B.: *Analysis and Evaluation of Alternative Concepts in Modeling Tarmats To Conform to Laboratory Investigations and Field Conditions*, (Tech. Paper SPE 15689) SPERE Nov., 88 1109-1113

Turek, E.A. *et al.*: *Phase Behavior of Several CO2/West-Texas-Reservoir-Oil Systems*, (Tech. Paper SPE 13117) SPERE May, 88 505-516

U

Udell, K.S. and Stewart, L.D.: *Mechanisms of Residual Oil Displacement by Steam Injection*, (Tech. Paper SPE 16333) SPERE Nov., 88 1233-1242

Udell, K.S. and Michaels, K. F.: *Foam Production During Steam Displacement of Aqueous Surfactants*, (Tech. Paper SPE 16335) SPERE Aug., 88 897-901

Ul Alam, M.W. *et al.*: *Relative Permeabilities at Simulated Reservoir Conditions*, (Tech. Paper SPE 16970) SPERE Nov., 88 1323-1327

V

Vaidya, R.N. *et al.*: *Capacitance Effects in Porous Media*, (Tech. Paper SPE 16707) SPERE Nov., 88 1207-1214

Vogel, J.L. *et al.*: *Compositional Gradients in the Anschutz Ranch East Field*, (Tech. Paper SPE 14412) SPERE Aug., 88 1025-1032

W

Walas, S.M. *et al.*: *Modeling of Three-Phase Liquid/Liquid Equilibria*, (Tech. Paper SPE 14936) SPERE Aug., 88 1017-1024

Wang, F.H.L.: *Effect of Wettability Alteration on Water/Oil Relative Permeability, Dispersion, and Flowable Saturation in Porous Media*, (Tech. Paper SPE 15019) SPERE May, 88 617-628

Wang, Z. and Nur, A.M.: *Effect of Temperature on Wave Velocities in Sands and Sandstones With Heavy Hydrocarbons*, (Tech. Paper SPE 15646) SPERE Feb., 88 158-164

Watson, A.T. *et al.*: *A Regression-Based Method for Estimating Relative Permeabilities From Displacement Experiments*, (Tech. Paper SPE 15064) SPERE Aug., 88 953-958

Watson, A.T. and Yang, P.H.: *Automatic History Matching With Variable-Metric Methods*, (Tech. Paper SPE 16977) SPERE Aug., 88 995-1001

Wattenbarger, R.A. *et al.*: *A New Method of Matching Aquifer Performance and Determining Original Gas in Place*, (Tech. Paper SPE 16935) SPERE Aug., 88 985-994

Watts, R.J. *et al.*: *Economic Evaluation of a CO2 EOR Flood at the Rock Creek Field, Roane County, West Virginia*, (Tech. Paper SPE 15955) SPERE Aug., 88 829-834

Waxman, M.H. *et al.*: *Steady-State Tar/Water Relative Permeabilities in Peace River Cores at Elevated Temperature*, (Tech. Paper SPE 14227) SPERE Feb., 88 76-80

Wheat, M.R. and Dawe, R.A.: *Transverse Dispersion in Slug-Mode Chemical EOR Processes in Stratified Porous Media*, (Tech. Paper SPE 14890) SPERE May, 88 466-478

Wilburn, D.L. *et al.*: *An Experimental Investigation Into the Effects of Chemical Type on CO2/ Heavy-Hydrocarbon Phase Behavior*, (Tech. Paper SPE 16272) SPERE May, 88 711-719

Wilkes, J.O. and Batesole, E.C.: *Thermal Effects in Cyclic Operation of Storage Reservoirs*, (Tech. Paper SPE 16864) SPERE Nov., 88 1295-1300

Willhite, G.P. *et al.*: *Size-Exclusion Chromatography in the Measurement of Concentration and Molecular Weight of Some EOR Polymers*, (Tech. Paper SPE 14949) SPERE Aug., 88 835-841

Willhite, G.P. *et al.*: *The Effects of Shear History on the Gelation of Polyacrylamide/Chromium(VI)/Thiourea Solutions*, (Tech. Paper SPE 17472) SPERE Nov., 88 1251-1256

Willhite, G.P. *et al.*: *Modeling of Three-Phase Liquid/Liquid Equilibria*, (Tech. Paper SPE 14936) SPERE Aug., 88 1017-1024

Willhite, G.P. and Parmeswar, R.: *A Study of the Reduction of Brine Permeability in Berea Sandstone With the Aluminum Citrate Process*, (Tech. Paper SPE 13582) SPERE Aug., 88 959-966

Williams, M.L. and Chaback, J.J.: *Phase Equilibria in the SACROC Oil/CO2 System*, (Tech. Paper SPE 14923) SPERE Feb., 88 103-111

Wong, S.K.: *Analysis and Implications of In-Situ Stress Changes During Steam Stimulation of Cold Lake Oil Sands*, (Tech. Paper SPE 15173) SPERE Feb., 88 55-61

Wong, T. *et al.*: *EOS Predictions of Compressibility and Phase Behavior in Systems Containing Water, Hydrocarbons, and CO2*, (Tech. Paper SPE 15674) SPERE May, 88 673-684

Wong, T.W. *et al.*: *Re-Evaluation of Solvent Requirements for a Hydrocarbon Miscible Flood*, (Tech. Paper SPE 15572) SPERE Feb., 88 227-234

Woo, P.T. and Northrup, E.J.: *Application of Preconditioned Conjugate-Gradient-Like Methods in Reservoir Simulation*, (Tech. Paper SPE 13532) SPERE Feb., 88 295-301

Wood, R.W. *et al.*: *Experimental Studies on Waterflood Residual Gas Saturation and Its Production by Blowdown*, (Tech. Paper SPE 15455) SPERE May, 88 387-394

Wu, R.S. and Batycky, J.P.: *Pseudocomponent Characterization for Hydrocarbon Miscible Displacement*, (Tech. Paper SPE 15404) SPERE Aug., 88 875-883

Wu, Y.S. and Pruess, K.: *A Multiple-Porosity Method for Simulation of Naturally Fractured Petroleum Reservoirs*, (Tech. Paper SPE 15129) SPERE Feb., 88 327-336

Y

Yang, P.H. and Watson, A.T.: *Automatic History Matching With Variable-Metric Methods*, (Tech. Paper SPE 16977) SPERE Aug., 88 995-1001

Yortsos, Y.C. and Chikhliwala, E.D.: *Investigations on Viscous Fingering by Linear and Weakly Nonlinear Stability Analysis*, (Tech. Paper SPE 14367) SPERE Nov., 88 1268-1278

Yoshimura, A. and Prudhomme, R.K.: *Viscosity Measurements in the Presence of Wall Slip in Capillary, Couette, and Parallel-Disk Geometries*, (Tech. Paper SPE 14696) SPERE May, 88 735-742

Young, T.S. *et al.*: *Size-Exclusion Chromatography in the Measurement of Concentration and Molecular Weight of Some EOR Polymers*, (Tech. Paper SPE 14949) SPERE Aug., 88 835-841

Youngren, G.K. and Jhaveri, B.S.: *Three-Parameter Modification of the Peng-Robinson Equation of State To Improve Volumetric Predictions*, (Tech. Paper SPE 13118) SPERE Aug., 88 1033-1040

Ypma, J.G.J.: *Compositional Effects in Gravity-Dominated Nitrogen Displacements*, (Tech. Paper SPE 14416) SPERE Aug., 88 867-874

Z

Ziegler, V.M.: *Laboratory Investigation of High-Temperature Surfactant Flooding*, (Tech. Paper SPE 13071) SPERE May, 88 586-596

Subject Index

A

Absorption
X-ray method: new for measurement of three-phase relative permeability, (Tech. Paper SPE 14420) SPERE Feb. 88, 199-206

Africa
Tarmat reservoirs: bottomwater drive in, (Tech. Paper SPE 15687) SPERE May 88, 395-400

Alaska
Kuparuk River field: thermal recovery of heavy oils; analytic model for analyzing effects of dissociation of hydrates, (Tech. Paper SPE 14224) SPERE May 88, 449-456

Algorithm
Computational:; modeling of three-phase liquid/liquid equilibria, (Tech. Paper SPE 14936) SPERE Aug. 88, 1017-1024
Criteria for evaluation: automatic history matching with variable-metric methods, (Tech. Paper SPE 16977) SPERE Aug. 88, 995-1001
Oil-flow-enhancement scheme: field-scale in-situ combustion simulator with channeling, (Tech. Paper SPE 13220) SPERE May 88, 419-430

Alkaline Flooding
And polymer: strategy for design with Berea and reservoir-rock corefloods, (Tech. Paper SPE 14935) SPERE Nov. 88, 1143-1152
Chromatographic transport of buffers through reservoir rock, (Tech. Paper SPE 14295) SPERE Aug. 88, 849-856
Dissolution and condensation kinetics of silica, (Tech. Paper SPE 13601) SPERE May 88, 743-752
Hydrolytic stability of alkylethoxy sulfates, (Tech. Paper SPE 14912) SPERE Feb. 88, 235-242
Polymer-augmented: update at Isenhour unit, Sublette County, Wyoming, (Tech. Paper SPE 14954) SPERE May 88, 604-608
Reaction of sodium hydroxide with reservoir minerals: role of silicate and aluminate ions in, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160
Rock dissolution and consumption phenomena in recovery system, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68

Aluminum
Citrate process: study of reduction of brine permeability in Berea sandstone, (Tech. Paper SPE 13582) SPERE Aug. 88, 959-966

Analogs
Statistical and dimensionless time: generalized Dykstra-Parsons method, (Tech. Paper SPE 14523) SPERE Feb. 88, 313-319

Analytical Methods
Comparison of solutions of nonlinear and linearized diffusion equations, (Tech. Paper SPE 17270) SPERE Nov. 88, 1202-1206

Anschutz Ranch East Field
See Utah and Wyoming

Aquifers
Finite and infinite radial: polynomial approach to van Everdingen-Hurst dimensionless variable for water encroachment, (Tech. Paper SPE 15433) SPERE Feb. 88, 320-326
Performance: new method for matching and determining original gas in place, (Tech. Paper SPE 16935) SPERE Aug. 88, 985-994
Size effect on performance: partial waterdrive gas reservoirs, (Tech. Paper SPE 13233) SPERE May 88, 380-386

Asphalt
In heavy fraction of reservoir crude-oil/gas systems: surface tension of, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272

B

Backpressure Equation
Gas: estimating reservoir parameters from; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18725) SPERE Nov. 88, 1330
Gas: estimating reservoir parameters from; discussion of, (Tech. Paper, Discussion SPE 18599) SPERE Nov. 88, 1328
Gas: estimating reservoir parameters from; discussion of, (Tech. Paper, Discussion SPE 18608) SPERE Nov. 88, 1328-1330

Beads
Packs: entrapment and mobilization of residual oil, (Tech. Paper SPE 14423) SPERE Aug. 88, 927-934

Biopolymer
Thermal stability limits: water-soluble types used in oil recovery processes, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34

Bottomwater Drives
In tarmat reservoirs, (Tech. Paper SPE 15687) SPERE May 88, 395-400
Water influx for reservoirs: calculation of, (Tech. Paper SPE 13170) SPERE May 88, 369-379

Boundary Conditions
And crossflow behavior during displacement in nodal systems, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142

Boundary Element Method
Application to immiscible displacement problems, (Tech. Paper SPE 15136) SPERE Aug. 88, 1069-1077
Improved streamline-generating technique that uses, (Tech. Paper SPE 15135) SPERE Aug. 88, 1061-1068

Brent Field
See North Sea

Brines
And subcritical CO2 floods: dynamics of; heavy-oil recovery, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44
Hard: chromium (III) propionate, a crosslinking agent for water-soluble polymers in oil fields, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250
Reductiion of permeability in Berea sandstone: study with aluminum citrate process, (Tech. Paper SPE 13582) SPERE Aug. 88, 959-966

Bu Hasa Field
See Abu Dhabi

C

California
Acidic oil: strategy for alkaline/polymer flood design with Berea and reservoir-rock corefloods, (Tech. Paper SPE 14935) SPERE Nov. 88, 1143-1152
Kern River field: horizontal-well steam pilot, (Tech. Paper SPE 16346) SPERE Aug. 88, 935-944
Kern River field: surfactant transport through porous media; steam-foam processes, (Tech. Paper SPE 14391) SPERE Nov. 88, 1177-1185
Paloma field, San Joaquin Valley: estimation of effective permeabilities in lower Stevens formation, (Tech. Paper SPE 15907) SPERE Nov. 88, 1301-1307

San Ardo field: use of tracers to investigate drilling-fluid invasion and oil flushing during coring, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322
Wilmington field: CO2 diversion with foam; immiscible CO2/N2 field project, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118
Wilmington field: evaluation of micellar/polymer project, (Tech. Paper SPE 12681) SPERE May 88, 609-616
Wilmington field: heavy-oil immiscible CO2 tertiary coreflood; analysis of data, (Tech. Paper SPE 14901) SPERE Feb. 88, 69-75

Canada
Cold Lake field: steam stimulation of oil sands; analysis and implications of in-situ stress changes, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61
Fenn-Big Valley D-2A pool: re-evaluation of solvent requirements for a hydrocarbon miscible flood, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234
Peace River cores: steady-state tar/water relative permeabilites at elevated temperature, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80
Peace River in-situ project: interpretation of radioactive tracer results in steamdrive, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287
Rainbow Keg River Pool B: vertical hydrocarbon miscible flood; radioactive tracers monitor solvent spreading, (Tech. Paper SPE 14440) SPERE Feb. 88, 273-280

Capacitance
Effects in porous media, (Tech. Paper SPE 16707) SPERE Nov. 88, 1207-1214

Capillary Flow
Two-phase fluid displacement: some invariant solutions to problems including capillary effect, (Tech. Paper SPE 14874) SPERE May 88, 691-700
Viscosity measurements in presence of wall slip: capillary, Couette, and parallel-disk geometries, (Tech. Paper SPE 14696) SPERE May 88, 735-742

Capillary Number
Effect on microstructure of residual oil: strongly water-wet sands, (Tech. Paper SPE 13213) SPERE Aug. 88, 902-912

Capillary Pressure
At low water saturation: use of water-vapor desorption data in determination of, (Tech. Paper SPE 16286) SPERE Aug. 88, 913-918
Effect on relative permeabilities at simulated reservoir conditions, (Tech. Paper SPE 16970) SPERE Nov. 88, 1323-1327
Effects on coalescence and phase mobilities: foams flowing through porous media, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926

Capillary Snap-Off
Population balance and generation by: development of a mechanistic foam simulator, (Tech. Paper SPE 14961) SPERE Aug. 88, 884-892

Carbon Dioxide
And N2: solubility and extraction in multiple-contact miscible displacement; comparison of flow visualization experiments, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219
And heavy-crude-oil mixtures: measurements and correlations of physical properties of, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
And heavy-hydrocarbon phase behavior: effects of chemical types on; experimental investigation, (Tech. Paper SPE 16272) SPERE May 88, 711-719
And highly asphastic crude mixtures: multiple-contact phase behavior measurement and application, (Tech. Paper SPE 14438) SPERE May 88, 701-710
And rich-gas applications: measurement and correlation of diffusion coefficients, (Tech. Paper SPE 15391) SPERE May 88, 517-523
And tetradecane: and CO2/Maljamar-crude-oil systems; effect of an aqueous phase on, (Tech. Paper SPE 15400) SPERE May 88, 533-541
And water and hydrocarbon systems: EOS predictions of compressibility and phase behavior in, (Tech. Paper SPE 15674) SPERE May 88, 673-684
And west Texas reservoir-oil systems: phase behavior of, (Tech. Paper SPE 13117) SPERE May 88, 505-516
Density of crude oil saturated with, (Tech. Paper SPE 16350) SPERE Aug. 88, 815-821
Diffusion at reservoir conditions: models and measurements, (Tech. Paper SPE 14897) SPERE Feb. 88, 93-102
Displacements of reservoir oils from long Berea cores: laboratory and simulation results, (Tech. Paper SPE 14306) SPERE May 88, 496-504
Diversion with foam: immiscible CO2/N2 field project, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118
EOR flood: economic evaluation of; Rock Creek field, West Virginia, (Tech. Paper SPE 15955) SPERE Aug. 88, 829-834
Flood: experimental investigation of interaction of phase behavior with microscopic heterogeneity, (Tech. Paper SPE 14147) SPERE May 88, 662-672
Flood: review of Springer "A" sand, Northeast Purdy unit, Garvin County, Oklahoma, (Tech. Paper SPE 14938) SPERE Nov. 88, 1161-1167
Flooding by use of foaming agents: sweep improvement in, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192
Flooding of petroleum resevoirs: thermodynamic correlation for minimum miscibility pressure, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92
Flooding: effect of WAG injection and rock wettability on oil recovery, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129
Floods: effect of pore structure on miscible displacement in laboratory cores, (Tech. Paper SPE 15017) SPERE Aug. 88, 857-866
Gravity-assisted flooding: mechanistic study of, (Tech. Paper SPE 14895) SPERE May 88, 524-532
Huff 'n' puff process for light-oil recovery: laboratory and field evaluation of, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
Immiscible: heavy-oil tertiary coreflood; analysis of data, (Tech. Paper SPE 14901) SPERE Feb. 88, 69-75
N2 injection: interpretation of injection field test; moderately fractured carbonate reservoir, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226
Oil system: phase equilibria in SACROC, (Tech. Paper SPE 14923) SPERE Feb. 88, 103-111
Subcritical: and brine floods: dynamics of; heavy-oil recovery, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44
Vapor-density measurement for estimating minimum miscibility proessure, (Tech. Paper SPE 15403) SPERE Nov. 88, 1215-1220
WAG pilot project: Quarantine Bay 4RC; postflood evaluation, (Tech. Paper SPE 15498) SPERE Aug. 88, 809-814

Carbonate Reservoirs
Fractured, moderately: interpretation of CO2/N2 injection field test, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226

Channeling
Considerations: field-scale in-situ combustion simulator with, (Tech. Paper SPE 13220) SPERE May 88, 419-430

Characterization
And control of formation damage during waterflooding: high-clay-content reservoir, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286
Of pseudocomponents for hydrocarbon miscible displacement, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883
Chemical Flooding
Enhanced oil recovery: effects of reservoir heterogeneity on, (Tech. Paper SPE 14889) SPERE May 88, 479-488
Slug-mode processes: transverse dispersion in stratified porous media, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Chemicals
Degradation of polymer solutions: random-scission model for, (Tech. Paper SPE 15197) SPERE Feb. 88, 349-352
Stability limits of water-soluble polymers used in oil recovery processes, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34
Type (paraffins, naphthenes, and aromatics): effects on CO2/heavy-hydrocarbon phase behavior; experimental investigation, (Tech. Paper SPE 16272) SPERE May 88, 711-719
Chromatography
Size-exclusion: in measurement of concentration and molecular weight of some EOR polymers, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841
Transport of alkaline buffers through reservoir rock, (Tech. Paper SPE 14295) SPERE Aug. 88, 849-856
Chromium
Polyacrylamide/thiourea solutions: effects of shear history on gelation, (Tech. Paper SPE 17472) SPERE Nov. 88, 1251-1256
Clays
High-content in reservoir: characterization and control of formation damage during waterflooding, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286
Coalescence
And phase mobilities: of foams flowing through porous media; effects of capillary pressure on, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926
Coals
Degasification of seams: comparative evaluation of vertical and horizontal drainage wells for, (Tech. Paper SPE 13091) SPERE May 88, 720-734
Coefficients
Diffusion:; measurement and correlation for CO2 and rich-gas applications, (Tech. Paper SPE 15391) SPERE May 88, 517-523
Cold Lake Field
See Canada
Colorado
Rangely field: mechanistic study of gravity-assisted CO2 flooding, (Tech. Paper SPE 14895) SPERE May 88, 524-532
Composition
Data: estimating from lumped information; inverse lumping, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089
Effects in gravity-dominated nitrogen displacements, (Tech. Paper SPE 14416) SPERE Aug. 88, 867-874
Compressibility
And phase behavior: EOS predictions of; systems containing water, hydrocarbons, and CO2, (Tech. Paper SPE 15674) SPERE May 88, 673-684
Of water: effects of salt, gas, temperature, and pressure, (Tech. Paper SPE 13174) SPERE Feb. 88, 175-181
Reservoir-condition PV: prediction from hydrostatic-stress laboratory data, (Tech. Paper SPE 14213) SPERE Aug. 88, 1078-1082
Computers
Cray-1S and Cray X-MP: conjugate-gradient-type iterative methods; incomplete LU preconditioners for, (Tech. Paper SPE 13533) SPERE Feb. 88, 302-306
Programs: application of boundary integral method to immiscible displacement problems, (Tech. Paper SPE 15136) SPERE Aug. 88, 1069-1077
Condensates
Volumetric phase behavior: comparative study of eight equations of state for predicting, (Tech. Paper SPE 15673) SPERE Feb. 88, 337-348
Coning
In naturally fractured petroleum reservoirs: multiple-porosity method for simulation of, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336
Conjugate-Gradient-Like Methods
Block-preconditioned for numerical reservoir simulation, (Tech. Paper SPE 13534) SPERE Feb. 88, 307-312
Iterative type: incomplete LU preconditioner for, (Tech. Paper SPE 13533) SPERE Feb. 88, 302-306
Preconditioned: application in reservoir simulation, (Tech. Paper SPE 13532) SPERE Feb. 88, 295-301
Controls
And characterization of formation damage during waterflooding: high-clay-content reservoir, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286
Coordinates
Curvilinear: integral approach for discretizing reservoir flow equations, (Tech. Paper SPE 12727) SPERE May 88, 685-690
Corefloods
Berea and reservoir-rock: strategy for alkaline/polymer flood design with, (Tech. Paper SPE 14935) SPERE Nov. 88, 1143-1152
Tests: suspended solids specifications for water injection from, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294
Cores
Berea and Loudon reservoir: effect of wettability alteration on water/oil relative permeability, dispersion, and flowable saturation, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Berea sandstone: gas/oil relative permeability; influence of interfacial tension in a gas-condensate system, (Tech. Paper SPE 11740) SPERE Feb. 88, 257-264
Clashach sandstone: experimental and theoretical investigation of time-setting polymer gels, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Laboratory: effect of pore structure on miscible displacement, (Tech. Paper SPE 15017) SPERE Aug. 88, 857-866
Long Berea type: CO2 displacements of reservoir oils from; laboratory and simulation results, (Tech. Paper SPE 14306) SPERE May 88, 496-504
Peace River: steady-state tar/water relative permeabilities at elevated temperature, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80
Sandstone: experimental studies on waterflood residual gas saturation and its production by blowdown, (Tech. Paper SPE 15455) SPERE May 88, 387-394
Coring
Drill-fluid invasion and oil flushing during: use of tracers to investigate, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322
Correlations
And measurement of diffusion coefficients: CO2 and rich-gas applications, (Tech. Paper SPE 15391) SPERE May 88, 517-523

And measurements of physical properties: CO2/heavy-crude-oil mixtures, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
Composition-based gradients vs. linear depth: Anschutz Ranch East field, (Tech. Paper SPE 14412) SPERE Aug. 88, 1025-1032
Fluid: North Sea reservoir containing near-critical fluids; delineation nd evaluation of, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848
For determining density of CO2/crude-oil mixtures, (Tech. Paper SPE 16350) SPERE Aug. 88, 815-821
Of phase behavior of two- and three-phase systems: modeling of liquid/liquid equilibria, (Tech. Paper SPE 14936) SPERE Aug. 88, 1017-1024
Of vapor-density measurement and minimum miscibility pressure, (Tech. Paper SPE 15403) SPERE Nov. 88, 1215-1220
Oil: surfactants for; olefin sulfonate behavior at high temperature and hardness, (Tech. Paper SPE 14933) SPERE May 88, 597-603
Phase-behavior: high-salinity surfactant formulations, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790
Thermodynamic: for minimum miscibility pressure; CO2 flooding of petroleum reservoirs, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92

Cosurfactants
Nonionic micellar fluid: and crude oil sulfonate; laboratory evaluation of, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808

Couette Geometry
And capillary and parallel-disk geometries: viscosity measurements in presence of wall slip, (Tech. Paper SPE 14696) SPERE May 88, 735-742

Coulommes-Vaucourtois Field
See France

Cracking
Thermal: of heavy-oil/mineral matrix systems, (Tech. Paper SPE 16269) SPERE Nov. 88, 1243-1250

Crossflow
And boundary behavior during displacement in nodal systems, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142
Viscous and gravity: in two-dimensional layered sand model; experimental study of waterflooding, (Tech. Paper SPE 13599) SPERE Feb. 88, 45-54

Crosslinked Fluids
Chromium (III) propionate: agent for water-soluble polymers in hard oilfield brines, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250

Crude Oils
And gas reservoir systems: interfacial tension of recognizing asphalt in heavy fraction, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272
Density saturated with CO2, (Tech. Paper SPE 16350) SPERE Aug. 88, 815-821
Heavy, and CO2 mixtures: measurements and correlations of physical properties of, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
High asphaltic: and CO2 mixtures: multiple-contact phase behavior measurement and application, (Tech. Paper SPE 14438) SPERE May 88, 701-710
Light: laboratory and field evaluation of CO2 huff 'n' puff process for recovery of, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
Maljamar and CO2 systems: effect of an aqueous phase on, (Tech. Paper SPE 15400) SPERE May 88, 533-541
Sulfonate/nonionic-cosurfactant micellar fluid: laboratory evaluation of, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808

Cycling
Thermal effects in operation of storage reservoirs, (Tech. Paper SPE 16864) SPERE Nov. 88, 1295-1300

D

Data
Analysis: of heavy-oil immiscible CO2 tertiary coreflood, (Tech. Paper SPE 14901) SPERE Feb. 88, 69-75
Compositional: estimating from lumped information; inverse lumping, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089
Hydrostatic stress: laboratory study to predict reservoir-condition PV compressibility from, (Tech. Paper SPE 14213) SPERE Aug. 88, 1078-1082
Water-vapor desorption: use in determination of capillary pressures at low water saturations, (Tech. Paper SPE 16286) SPERE Aug. 88, 913-918

Degasification
Of coal seams: comparative evaluation of vertical and horizontal drainage wells for, (Tech. Paper SPE 13091) SPERE May 88, 720-734

Degradation
Chemical: of polymer solutions; randon-scission model for, (Tech. Paper SPE 15197) SPERE Feb. 88, 349-352
Molecular: and injectivity and elastic properties of polymer solutions, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201

Delineation
And evaluation of a North Sea reservoir containing near-critical fluids, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848

Deliverability
Gas-well: simplified method for determining, (Tech. Paper SPE 14507) SPERE Aug. 88, 1090-1096

Denmark
Skjold field: early evaluation of oil recovery through water imbibition in fractured reservoir, (Tech. Paper SPE 15569) SPERE Feb. 88, 17-22

Density
Of crude oil saturated with CO2, (Tech. Paper SPE 16350) SPERE Aug. 88, 815-821
Vapor measurement: for estimating minimum miscibility pressure, (Tech. Paper SPE 15403) SPERE Nov. 88, 1215-1220

Depletion
Performance: effect of aquifer size on: partial waterdrive gas reservoirs, (Tech. Paper SPE 13233) SPERE May 88, 380-386

Design
Of graded-viscosity banks: design with pseudoplastic fluids, (Tech. Paper SPE 14230) SPERE Nov. 88, 1221-1232
Strategy for alkaline/polymer flood: Berea and reservoir-rock corefloods, (Tech. Paper SPE 14935) SPERE Nov. 88, 1143-1152

Developments
Of mechanistic foam simulator: population balance and generation by capillary snap-off, (Tech. Paper SPE 14961) SPERE Aug. 88, 884-892

Diffusion
Coefficients: measurement and correlation for CO2 and rich-gas applications, (Tech. Paper SPE 15391) SPERE May 88, 517-523
Nonlinear and linearized equations for: comparison of solutions, (Tech. Paper SPE 17270) SPERE Nov. 88, 1202-1206
Of CO2 at reservoir conditions: models and measurement, (Tech. Paper SPE 14897) SPERE Feb. 88, 93-102

Dimensionless Groups
van Everdingen-Hurst variable for: polynomial approach to, (Tech. Paper SPE 15433) SPERE Feb. 88, 320-326
Dip
Steep: steamflood strategies for a reservoir with, (Tech. Paper SPE 15089) SPERE May 88, 431-439
Dispersion
And reservoir heterogeneity, (Tech. Paper SPE 14364) SPERE Feb. 88, 139-148
In porous media: effect of wettability alteration on, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Transverse: in slug-mode chemical EOR processes in Stratified porous media, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Displacement
CO2: of reservoir oils from long Berea cores; laboratory and simulation results, (Tech. Paper SPE 14306) SPERE May 88, 496-504
Data: laboratory determinations of relative permeabilities at reservoir conditions, (Tech. Paper SPE 16970) SPERE Nov. 88, 1323-1327
Experiments: entrapment and mobilization of residual oil in bead packs, (Tech. Paper SPE 14423) SPERE Aug. 88, 927-934
Experiments: regression-based method for estimating relative permeabilities, (Tech. Paper SPE 15064) SPERE Aug. 88, 953-958
Flow visualization effects of interfacial tension on, (Tech. Paper SPE 14930) SPERE Feb. 88, 251-256
Generated by simultaneous injection of oil and water: saturation distribution during, (Tech. Paper SPE 15198) SPERE Feb. 88, 130-138
Gravity-dominated nitrogen: compositional effects in, (Tech. Paper SPE 14416) SPERE Aug. 88, 867-874
Immiscible problems: application of boundary integral method to, (Tech. Paper SPE 15136) SPERE Aug. 88, 1069-1077
In nodal systems: boundary and crossflow behavior during displacement, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142
Laboratory tests: solvent extraction approach to oil recovery calculations from, (Tech. Paper SPE 16322) SPERE Aug. 88, 1057-1060
Of crude oil: during CO2 flooding; effect of WAG injection and rock wettability on oil recovery, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129
Of residual oil: mechanisms by steam injection, (Tech. Paper SPE 16333) SPERE Nov. 88, 1233-1242
Slug mode: transverse dispersion in chemical EOR processes; stratified porous media, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Steam: of aqueous surfactants; foam production during, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Displacement Efficiency
CO2 flood: experimental investigation of interaction of phase behavior with microscopic heterogeneity, (Tech. Paper SPE 14147) SPERE May 88, 662-672
Displacement Mechanism
Two-phase fluid: some invariant solutions to problems including capillary effect, (Tech. Paper SPE 14874) SPERE May 88, 691-700
Unstable waterfloods: rate dependence of, (Tech. Paper SPE 14368) SPERE May 88, 401-409
Dissolution
And condensation kinetics: of silica in alkaline solution, (Tech. Paper SPE 13601) SPERE May 88, 743-752
Rock: and consumption phenomena: alkaline recovery system, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68
Distribution
Of permeability: and sample size; influence on heterogeneity measures, (Tech. Paper SPE 15434) SPERE May 88, 629-637
Saturation: during displacements generated by simultaneous injection of oil and water, (Tech. Paper SPE 15198) SPERE Feb. 88, 130-138
Drainage
Mode of displacement: flow visualization of effects of interfacial tension, (Tech. Paper SPE 14930) SPERE Feb. 88, 251-256
Of vertical and horizontal wells: comparative evaluation for degasification of coal seams, (Tech. Paper SPE 13091) SPERE May 88, 720-734
Drilling Fluids
Invasion: and oil flushing during coring; use of tracers to investigate, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322
Dykstra-Parsons Method
Generalized: statistical and dimensionless-time analog to, (Tech. Paper SPE 14523) SPERE Feb. 88, 313-319
Of heterogeneity measures: influence of sample size and permeability distribution, (Tech. Paper SPE 15434) SPERE May 88, 629-637
Dynamics
Of subcritical CO2/brine floods: heavy-oil recovery, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44

E

Economics
Evaluation: CO2 EOR flood; Rock Creek field, West Virginia, (Tech. Paper SPE 15955) SPERE Aug. 88, 829-834
Of polymer-augmented alkaline flood: update at Isenhour unit, Sublette County, Wyoming, (Tech. Paper SPE 14954) SPERE May 88, 604-608
Enhanced Recovery
CO2 flood: economic evaluation of; Rock Creek field, West Virginia, (Tech. Paper SPE 15955) SPERE Aug. 88, 829-834
Gelation of polyacrylamide/chromium(VI)/thiourea solutions: effects of shear history on, (Tech. Paper SPE 17472) SPERE Nov. 88, 1251-1256
In porous media: effect of wettability alteration on water/oil relative permeability, dispersion, and flowable saturation, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Microbial: evaluation in porous media, (Tech. Paper SPE 16284) SPERE May 88, 489-495
Of light crude oil: laboratory and field evaluation of CO2 huff 'n' puff process, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
Of oil: effects of reservoir heterogeneity on chemical flooding, (Tech. Paper SPE 14889) SPERE May 88, 479-488
Of oil: transverse dispersion in slug-mode chemical processes: stratified porous media, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Polymers: measurement of concentration and molecular weight; size-exclusion chromatography in, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841
Enriched Gas Drive
In hydrocarbon miscible displacement: pseudocomponent characterization for, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883

Entrapment
And mobilization of residual oil in bead packs, (Tech. Paper SPE 14423) SPERE Aug. 88, 927-934
Equations of State
Calculations: use of semicontinuous description to model C7+ fraction, (Tech. Paper SPE 14925) SPERE Aug. 88, 1041-1047
For predicting hydrocarbon volumetric phase behavior: comparison of eight types, (Tech. Paper SPE 15673) SPERE Feb. 88, 337-348
In hydrocarbon miscible displacement: pseudocomponent characterization for, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883
Inverse lumping with: estimating compositional data from lumped information, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089
Minimum miscibility pressure prediction with, (Tech. Paper SPE 15677) SPERE May 88, 559-564
Peng-Robinson: three-parameter modification to improve volumetric predictions, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040
Predictions of compressibility and phase behavior: systems containing water, hydrocarbons, and CO2, (Tech. Paper SPE 15674) SPERE May 88, 673-684
Equilibrium
Chemical: models used in simulating injection of incompatible waters, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294
Phase: in SACROC oil/CO2 system, (Tech. Paper SPE 14923) SPERE Feb. 88, 103-111
Three-phase liquid/liquid: modeling of, (Tech. Paper SPE 14936) SPERE Aug. 88, 1017-1024
Evaluations
Again: of solvent requirements for a hydrocarbon miscible flood, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234
And analysis of alternative concepts in modeling tarmats to conform to laboratory investigations and field conditions, (Tech. Paper SPE 15689) SPERE Nov. 88, 1109-1113
And delineation of a North Sea reservoir containing near-critical fluids, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848
Comparitive: of vertical and horizontal drainage wells for degasification of coal seams, (Tech. Paper SPE 13091) SPERE May 88, 720-734
Early: of oil recovery through water imbibition in fractured reservoir; Skjold field, Danish North Sea, (Tech. Paper SPE 15569) SPERE Feb. 88, 17-22
Economic: of CO2 EOR flood; Rock Creek field, West Virginia, (Tech. Paper SPE 15955) SPERE Aug. 88, 829-834
In field and laboratory of CO2 huff 'n' puff process for light-oil recovery, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
Laboratory: of a crude-oil-sulfonate/nonionic-cosurfactant micellar fluid, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808
Of empirical model for viscous fingering with gravity effects: detailed validation, (Tech. Paper SPE 15993) SPERE May 88, 542-550
Of micellar/polymer project: Wilmington field, (Tech. Paper SPE 12681) SPERE May 88, 609-616
Of microbial systems in porous media for EOR, (Tech. Paper SPE 16284) SPERE May 88, 489-495
Of reservoir parameters from gas backpressure equation, (Tech. Paper SPE 13302) SPERE May 88, 649-650
Of reservoir parameters from gas backpressure equation: author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18725) SPERE Nov. 88, 1330
Of reservoir parameters from gas backpressure equation; discussion of, (Tech. Paper, Discussion SPE 18599) SPERE Nov. 88, 1328
Of reservoir parameters from gas backpressure equation; discussion of, (Tech. Paper, Discussion SPE 18608) SPERE Nov. 88, 1328-1330
Postflood: Quarantine Bay 4RC CO2 WAG pilot project, (Tech. Paper SPE 15498) SPERE Aug. 88, 809-814
Extraction
And solubility: in multiple-contact miscible displacement; comparison of N2 and CO2 flow visualization experiments, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219
Of solvent: approach to oil recovery calculations from laboratory displacement tests, (Tech. Paper SPE 16322) SPERE Aug. 88, 1057-1060

F

Faults
Two intersecting: tarmat behavior under water injection in a reservoir with, (Tech. Paper SPE 15981) SPERE Feb. 88, 207-212
Two intersecting: tarmat behavior under water injection in a reservoir with; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov. 88, 1332
Two intersecting: tarmat behavior under water injection in a reservoir with; discussion of, (Tech. Paper, Discussion SPE 18604) SPERE Nov. 88, 1331-1332
Field Tests
And laboratory evaluation of CO2 huff 'n' puff process for light-oil recovery, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
CO2/N2 injection: interpretation of; moderately fractured carbonate reservoir, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226
Immiscible CO2/N2 project: CO2 diversion with foam, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118
Quarantine Bay 4RC CO2 WAG pilot project: postflood evaluation, (Tech. Paper SPE 15498) SPERE Aug. 88, 809-814
Fingering
Miscible viscous: approximate model with physically interpretable parameters for representing, (Tech. Paper SPE 13166) SPERE May 88, 551-558
Viscous: dynamics of; rate dependence of unstable waterfloods, (Tech. Paper SPE 14368) SPERE May 88, 401-409
Viscous: investigations by linear and weakly nonlinear stability analysis, (Tech. Paper SPE 14367) SPERE Nov. 88, 1268-1278
Viscous: with gravity effects; detailed validation of an empirical model for, (Tech. Paper SPE 15993) SPERE May 88, 542-550
Flow Rate
Effect on oil recovery by waterflooding: experimental study using two-dimensional layered sand model, (Tech. Paper SPE 13599) SPERE Feb. 88, 45-54
Fluid Flow
Countercurrent: experienced in one-demensional tilted reservoirs; analysis of upstream differencing, (Tech. Paper SPE 14045) SPERE Aug. 88, 1053-1056
Gas-well deliverability: simplified method for determining, (Tech. Paper SPE 14507) SPERE Aug. 88, 1090-1096

Highly accelerated:; momentum equation for, (Tech. Paper SPE 16202) SPERE Aug. 88, 1048-1052
In porous media: capacitance effects in, (Tech. Paper SPE 16707) SPERE Nov. 88, 1207-1214
Miscible and immiscible: unstable flow through porous media; use of Monte Carlo method to simulate, (Tech. Paper SPE 17474) SPERE Nov. 88, 1129-1136
Of foam in porous media: foam production during steam displacement of aqueous surfactants, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Of foams through porous media: effects of capillary pressure on coalescence and phase mobilities in, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926
Steady state; integral approach for discretizing reservoir flow equations, (Tech. Paper SPE 12727) SPERE May 88, 685-690
Vertical at reservoir/aquifer interfaces: calculation of water influx for bottomwater-drive reservoirs, (Tech. Paper SPE 13170) SPERE May 88, 369-379
Viscous fingering: investigations by linear and weakly nonlinear stability analysis, (Tech. Paper SPE 14367) SPERE Nov. 88, 1268-1278
Visualization experiments: comparison of N2 and CO2; solubility and extraction in multiple-contact miscible displacement, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219
Visualization: effects of interfacial tension on displacement, (Tech. Paper SPE 14930) SPERE Feb. 88, 251-256

Fluid Mechanics
Two-phase displacement: some invariant solutions to problems including capillary effect, (Tech. Paper SPE 14874) SPERE May 88, 691-700

Fluxing Agents
Sweep improvement in CO2 flooding by use of, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192

Foams
CO2 diversion with: immiscible CO2/N2 field project, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118
Development of mechanistic simulator: population balance and generation by capillary snap-off, (Tech. Paper SPE 14961) SPERE Aug. 88, 884-892
Flowing through porous media: effects of capillary pressure on coalescence and phase mobilities, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926
Mechanisms of generation in glass-bead packs, (Tech. Paper SPE 15441) SPERE May 88, 573-585
Production during steam displacement of aqueous surfactants, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Propagation through porous media: effects of spreading and nonspreading oils on, (Tech. Paper SPE 15668) SPERE Aug. 88, 893-896
Stability: investigation in porous media at elevated temperatures, (Tech. Paper SPE 15647) SPERE May 88, 565-572
Steam processes: surfactant transport through porous media, (Tech. Paper SPE 14391) SPERE Nov. 88, 1177-1185

Formation Damage
During waterflooding: characterization and control of high-clay-content reservoir, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286

Formation Fractures
Simulations of naturally fractured reservoirs, (Tech. Paper SPE 14110) SPERE May 88, 638-648

Formulation
Boundary (integral) element: improved streamline-generating technique that uses, (Tech. Paper SPE 15135) SPERE Aug. 88, 1061-1068
High-salinity surfactant: phase-behavior correlation for, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790

Fractured Reservoirs or Fracturing
Naturally: multiple-porosity method for simulation of, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336
Naturally: numerical simulation of, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122
Naturally: simulations of, (Tech. Paper SPE 14110) SPERE May 88, 638-648
Oil recovery through water imbibition: early evaluations of Skjold field, Danish North Sea, (Tech. Paper SPE 15569) SPERE Feb. 88, 17-22

France
Coulommes-Vaucourtois field: interpretation of a CO2/N2 injection field test; moderately fractured carbonate reservoir, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226

Fuels
Formation for in-situ combustion: reaction kinetics of, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316

G

Gas Condensates
Gas/oil relative permeability in system: influence of interfacial tension, (Tech. Paper SPE 11740) SPERE Feb. 88, 257-264
Volumetric phase behavior: comparative study of eight equations of state for predicting, (Tech. Paper SPE 15673) SPERE Feb. 88, 337-348

Gas Reservoirs
Determining gas in place: and new method of matching aquifer performance, (Tech. Paper SPE 16935) SPERE Aug. 88, 985-994
Estimating parameters from backpressure equation: author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18725) SPERE Nov. 88, 1330
Estimating parameters from backpressure equation: discussion of, (Tech. Paper, Discussion SPE 18599) SPERE Nov. 88, 1328
Estimating parameters from backpressure equation: discussion of, (Tech. Paper, Discussion SPE 18608) SPERE Nov. 88, 1328-1330
Partial waterdrive: aquifer size effect on performance, (Tech. Paper SPE 13233) SPERE May 88, 380-386

Gas Saturation
Waterflood residual: its production by blowdown; experimental studies on, (Tech. Paper SPE 15455) SPERE May 88, 387-394

Gas Wells
Deliverability: simplified method for determining, (Tech. Paper SPE 14507) SPERE Aug. 88, 1090-1096

Gas/Oil Ratio
Performance: numerical simulation of naturally fractured reservoirs, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122

Gas/Water Contact
Advancement in partial waterdrive gas reservoirs: aquifer size effect on performance, (Tech. Paper SPE 13233) SPERE May 88, 380-386

Gases
Rich and CO2 applications: measurement and correlation of diffusion coefficients, (Tech. Paper SPE 15391) SPERE May 88, 517-523
Salt, temperature and pressure: effects on water compressibility, (Tech. Paper SPE 13174) SPERE Feb. 88, 175-181

Gelation
Of polyacrylamide/chromium(VI)/thiourea solutions: effects of shear history on, (Tech. Paper SPE 17472) SPERE Nov. 88, 1251-1256
Gels
Time-setting polymer: experimental and theoretical investigation in porous media, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Water-soluble polymers: chromium (III) propionate, a crosslinking agent in hard oilfield brines, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250
Glenn Pool Field
See Oklahoma
Gradients
Compositional: in Anschutz Ranch East field, (Tech. Paper SPE 14412) SPERE Aug. 88, 1025-1032
Graphical Analysis
Comparison of solutions of nonlinear and linearized diffusion equations, (Tech. Paper SPE 17270) SPERE Nov. 88, 1202-1206
Gravity
Assisted CO2 flooding: mechanistic study of, (Tech. Paper SPE 14895) SPERE May 88, 524-532
Dominated nitrogen displacements: compositional effects, (Tech. Paper SPE 14416) SPERE Aug. 88, 867-874
Effects: detailed validation of an empirical model for viscous fingering, (Tech. Paper SPE 15993) SPERE May 88, 542-550
Gravity Segregation
Reservoirs: convergence analysis for upstream differencing, (Tech. Paper SPE 14045) SPERE Aug. 88, 1053-1056
With and without capillary pressure: numerical simulation of naturally fractured reservoirs, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122
Guidelines
For use of semicontinuous description to model C7+ fraction in equation of state calculations, (Tech. Paper SPE 14925) SPERE Aug. 88, 1041-1047

H

Hamm Field
See Wyoming
Hardness
And high temperature: olefin sulfonate behavior at; surfactants for EOR, (Tech. Paper SPE 14933) SPERE May 88, 597-603
Heterogeneity
Measures: influence of sample size and permeability distribution on, (Tech. Paper SPE 15434) SPERE May 88, 629-637
Microscopic: interaction of phase behavior with; experimental investigation of CO2 flood, (Tech. Paper SPE 14147) SPERE May 88, 662-672
Of reservoir: and dispersion, (Tech. Paper SPE 14364) SPERE Feb. 88, 139-148
Of reservoir: effects on chemically enhanced oil recovery, (Tech. Paper SPE 14889) SPERE May 88, 479-488
High Frequency
Cyclic CO2: laboratory and field evaluation for light-oil recovery, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
History
Automatic matching with variable-metric methods, (Tech. Paper SPE 16977) SPERE Aug. 88, 995-1001
Of shear: effects on gelation of polyacrylamide/chromium (VI) thiourea solutions, (Tech. Paper SPE 17472) SPERE Nov. 88, 1251-1256
Pressure-matching method for determination of relative permeabilities, (Tech. Paper SPE 13928) SPERE May 88, 651-661
Horizontal Well
And vertical: drainage for degasification of coal seams; comparative evaluation of, (Tech. Paper SPE 13091) SPERE May 88, 720-734
Steam pilot: Kern River field, California, (Tech. Paper SPE 16346) SPERE Aug. 88, 935-944
Huff n' Puff Process
CO2: laboratory and field evaluation for light-oil recovery, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
Hurst-van Everdingen Equation
Polynomial approach to dimensionless variables for water encroachment, (Tech. Paper SPE 15433) SPERE Feb. 88, 320-326
Hydrates
Dissociation of: effects on thermal recovery of heavy oils; analytic model for analyzing, (Tech. Paper SPE 14224) SPERE May 88, 449-456
Hydrocarbons
And water and CO2 systems: EOS predictions of compressibility and phase behavior in, (Tech. Paper SPE 15674) SPERE May 88, 673-684
Heavy: and CO2 phase behavior; effects of chemical types on; experimental investigation, (Tech. Paper SPE 16272) SPERE May 88, 711-719
Heavy: in sands and sandstones; effect of temperature on wave velocities in, (Tech. Paper SPE 15646) SPERE Feb. 88, 158-164
Lean gas: minimum miscibility pressure of vaporizing gas drive; prediction of, (Tech. Paper SPE 15075) SPERE Feb. 88, 182-198
Miscible displacement of: pseudocomponent characterization for, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883
Miscible flood: re-evaluation of solvent requirements, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234
Volumetric phase behavior predictions: comparative study of eight equations of state, (Tech. Paper SPE 15673) SPERE Feb. 88, 337-348
Hydrophile/Lipophile Balance
Implementation improved in thermal compositional simulator, (Tech. Paper SPE 16028) SPERE Nov. 88, 1123-1128
Hydrostatics
Stress: from laboratory data; predicting reservoir-condition PV compressiblility from, (Tech. Paper SPE 14213) SPERE Aug. 88, 1078-1082

I

Imbibition
Mode of displacement: flow visualization of effects of interfacial tension, (Tech. Paper SPE 14930) SPERE Feb. 88, 251-256
Water: in fractured reservoir; early evaluations of oil recovery in Skjold field, Danish North Sea, (Tech. Paper SPE 15569) SPERE Feb. 88, 17-22
Immiscible Displacement
CO2/N2 field project: CO2 diversion with foam, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118
Flow stability in porous media: investigations on viscous fingering by linear and wealy nonlinear stability analysis, (Tech. Paper SPE 14367) SPERE Nov. 88, 1268-1278
Heavy-oil/CO2 tertiary coreflood: analysis of data, (Tech. Paper SPE 14901) SPERE Feb. 88, 69-75

Problems: application of boundary integral method to, (Tech. Paper SPE 15136) SPERE Aug. 88, 1069-1077
Subcritical CO2/brine floods: dynamics of; heavy-oil recovery, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44
Unstable: flow through porous media; use of Monte Carlo method to simulate, (Tech. Paper SPE 17474) SPERE Nov. 88, 1129-1136

Implementation
Of improved adaptive-implicit method in thermal compositional simulator, (Tech. Paper SPE 16028) SPERE Nov. 88, 1123-1128

In-Situ Combustion
Field-scale simulator with channeling considerations, (Tech. Paper SPE 13220) SPERE May 88, 419-430
Lower Hospah formation, McKinley County, New Mexico, (Tech. Paper SPE 14917) SPERE May 88, 440-448
Processes: simplified performance-predictive model for, (Tech. Paper SPE 14242) SPERE May 88, 410-418
Reaction kinetics of fuel formation for, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316

Inflow Performance
Gas well: simplified method for determining deliverability, (Tech. Paper SPE 14507) SPERE Aug. 88, 1090-1096

Injection
CO2/N2 field test: interpretation of; moderately fractured carbonate reservoir, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226
CO2: review of flood; Springer "A" sand, Northeast Purdy unit, Garvin County, Oklahoma, (Tech. Paper SPE 14938) SPERE Nov. 88, 1161-1167
Of incompatible waters: chemical equilibrium models used in simulating in waterfloods, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294
Of oil and water simultaneously: saturation distributions during displacements generated by, (Tech. Paper SPE 15198) SPERE Feb. 88, 130-138
Of water in a reservoir with two intersecting faults: tarmat behavior under, (Tech. Paper SPE 15981) SPERE Feb. 88, 207-212
Of water in a reservoir with two intersecting faults; tarmat behavior under; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov. 88, 1332
Of water in reservoir with two intersecting faults; tarmat behavior under; discussion of, (Tech. Paper, Discussion SPE 18604) SPERE Nov. 88, 1331-1332
Operations: Glenn Pool surfactant flood pilot test, (Tech. Paper SPE 15551) SPERE Aug. 88, 771-777
WAG: and rock wettability: effect on oil recovery during CO2 flooding, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129
Water: suspended solids specifications from coreflood tests, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294

Injection Wells
Water: surfactant stimulation of; Magnus field, North Sea, (Tech. Paper SPE 13980) SPERE Feb. 88, 165-174

Injectivity
Of polymer solutions: also molecular degradation and injectivity, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201

Interfacial Tension
Flow visualization effects on displacement, (Tech. Paper SPE 14930) SPERE Feb. 88, 251-256
Influence on gas/oil relative permeability: gas-condensate system, (Tech. Paper SPE 11740) SPERE Feb. 88, 257-264

Interpretation
Of a CO2/N2 injection field test: moderately fractured carbonate reservoir, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226
Of radioactive tracer results: steamdrive project, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287

Invasion
Of drilling fluid: and oil flushing during coring; use of tracers to investigate, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322

Inverse Lumping
Estimating compositional data from lumped information, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089

Ions
Silicate and aluminate: role in reaction of sodium hydroxide with reservoir minerals, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160

Isenhour Field
See Wyoming

Iteration
Conjugate-gradient-type methods: incomplete LU preconditioners for, (Tech. Paper SPE 13533) SPERE Feb. 88, 302-306

K

Kern River Field
See California

Kinetics
Dissolution and condensation: of silica in alkaline solution, (Tech. Paper SPE 13601) SPERE May 88, 743-752
Of time-setting polymer gels: experimental and theoretical investigation in porous media, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Reaction: of fuel formation for in-situ combustion, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316

Kuparuk River Field
See Alaska

L

Laboratory Studies
And field conditions: analysis and evaluation of alternative concepts in modeling tarmats to conform to, (Tech. Paper SPE 15689) SPERE Nov. 88, 1109-1113
And field evaluation of CO2 huff 'n' puff process for light-oil recovery, (Tech. Paper SPE 15501) SPERE Nov. 88, 1168-1176
And theoretical investigation of time-setting polymer gels in porous media, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Bottomwater drive: tarmat reservoirs, (Tech. Paper SPE 15687) SPERE May 88, 395-400
CO2 displacements of reservoir oils from long Berea cores: also simulation results, (Tech. Paper SPE 14306) SPERE May 88, 496-504
CO2 diversion with foam: immiscible CO2/N2 field project, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118
CO2 flooding: effect of WAG injection and rock wettability on oil recovery, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129
CO2/tetradecane and CO2/Maljamar-crude-oil systems: effect of an aqueous phase on, (Tech. Paper SPE 15400) SPERE May 88, 533-541
Capacitance effects in porous media, (Tech. Paper SPE 16707) SPERE Nov. 88, 1207-1214

Chemical stability limits: of water-soluble polymers used in oil recovery processes, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34
Comparison of N2 and CO2 flow visualization experiments: solubility and extraction in multiple-contact miscible displacement, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219
Compositional gradients: Anschutz Ranch East field, (Tech. Paper SPE 14412) SPERE Aug. 88, 1025-1032
Core tests: of effectiveness of foaming agents to improve sweep in CO2 flooding, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192
Coreflood testing: chromium (III) propionate, a crosslinking agent for water-soluble polymers in hard oilfield brines, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250
Determination of capillary pressures at low water saturations: use of water-vapor desorption data, (Tech. Paper SPE 16286) SPERE Aug. 88, 913-918
Diffusion coefficients for CO2 and rich-gas applications: measurement and correlation of, (Tech. Paper SPE 15391) SPERE May 88, 517-523
Displacement experiments: regression-based method for estimating relative permeabilities, (Tech. Paper SPE 15064) SPERE Aug. 88, 953-958
Displacement in nodal systems: boundary and crossflow behavior during, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142
Displacement tests: solvent extraction approach to oil recovery calculations from, (Tech. Paper SPE 16322) SPERE Aug. 88, 1057-1060
Dissolution and condensation kinetics: silica in alkaline solution, (Tech. Paper SPE 13601) SPERE May 88, 743-752
Drilling-fluid invasion and oil flushing during coring: use of tracers to investigate, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322
Effect of temperature on wave velocities: sands and sandstones with heavy hydrocarbons, (Tech. Paper SPE 15646) SPERE Feb. 88, 158-164
Effects of chemical type on CO2/heavy-hydrocarbon phase behavior: investigation into effects of, (Tech. Paper SPE 16272) SPERE May 88, 711-719
Evaluation of crude-oil-sulfonate/nonionic-cosurfactant micellar fluid, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808
Flow visualization experiments: effects of interfacial tension on displacement, (Tech. Paper SPE 14930) SPERE Feb. 88, 251-256
Foam generation: mechanisms in glass-bead packs, (Tech. Paper SPE 15441) SPERE May 88, 573-585
Foam propagation through porous media: effect of spreading and nonspreading oils on, (Tech. Paper SPE 15668) SPERE Aug. 88, 893-896
Foam stability: investigation in porous media at elevated temperatures, (Tech. Paper SPE 15647) SPERE May 88, 565-572
Foams flowing through porous media: effects of capillary pressure on coalescence and phase mobilities in, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926
Gas/oil relative permeability: influence of interfacial tension in a gas-condensate system, (Tech. Paper SPE 11740) SPERE Feb. 88, 257-264
Gelation of polyacrylamide/chromium(VI)/thiourea solutions: effects of shear history on, (Tech. Paper SPE 17472) SPERE Nov. 88, 1251-1256
Graded-viscosity-bank design with pseudoplastic fluids, (Tech. Paper SPE 14230) SPERE Nov. 88, 1221-1232
Gravity-dominated nitrogen displacements: compositional effects in, (Tech. Paper SPE 14416) SPERE Aug. 88, 867-874
Heavy-oil/mineral matrix systems: thermal cracking of, (Tech. Paper SPE 16269) SPERE Nov. 88, 1243-1250
Hot water and steamflood under reservoir conditions, (Tech. Paper SPE 15650) SPERE Feb. 88, 149-157
Hydrolytic stability of alkylethoxy sulfates, (Tech. Paper SPE 14912) SPERE Feb. 88, 235-242
Hydrostatic-stress data: predicting reservoir-condition PV compressibility from, (Tech. Paper SPE 14213) SPERE Aug. 88, 1078-1082
Interaction of phase behavior with microscopic heterogeneity: CO2 flood, (Tech. Paper SPE 14147) SPERE May 88, 662-672
Mechanistic: of gravity-assisted CO2 flooding, (Tech. Paper SPE 14895) SPERE May 88, 524-532
Microemulsion phase behavior: empirical model for, (Tech. Paper SPE 14909) SPERE Aug. 88, 1002-1016
Microemulsion to liquid-crystal transition: two anionic surfactant systems, (Tech. Paper SPE 15653) SPERE Aug. 88, 791-800
Minimum miscibility pressure: thermodynamic correlation for; CO2 flooding of petroleum reservoirs, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92
Multiple-contact phase behavior measurement and application: mixtures of CO2 and highly asphaltic crude, (Tech. Paper SPE 14438) SPERE May 88, 701-710
Of CO2/heavy-crude-oil mixtures: measurements and correlations of physical properties of, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
Of aqueous surfactants: foam production during steam displacement, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Of dispersion: heterogeneous reservoir, (Tech. Paper SPE 14364) SPERE Feb. 88, 139-148
Of formation damage during waterflooding: characterization and control in high-clay-content reservoir, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286
Of high-salinity surfactant formulations: phase-behavior correlation for, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790
Of in-situ combustion: reaction kinetics of fuel formation for, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316
Of microbial systems: evaluation in porous media for EOR, (Tech. Paper SPE 16284) SPERE May 88, 489-495
Of miscible displacement in cores: effect of pore structure on, (Tech. Paper SPE 15017) SPERE Aug. 88, 857-866
Of near-critical fluids in a North Sea: delineation and evaluation of, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848
Of polymer solutions: molecular degradation, injectivity, and elastic properties of, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201
Of reduction of brine permeability in Berea sandstone with aluminum citrate process, (Tech. Paper SPE 13582) SPERE Aug. 88, 959-966
Of relative permeabilities at simulated reservoir conditions, (Tech. Paper SPE 16970) SPERE Nov. 88, 1323-1327
Of relative permeabilities: pressure-history-matching method for determination of, (Tech. Paper SPE 13928) SPERE May 88, 651-661
Of residual oil displacement by steam injection: mechanisms of, (Tech. Paper SPE 16333) SPERE Nov. 88, 1233-1242
Of residual oil in bead packs: entrapment and mobilization of, (Tech. Paper SPE 14423) SPERE Aug. 88, 927-934

Of some EOR polymers: measurement of concentration and molecular weight; size-exclusion chromatography in, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841
Of strongly water-wet sandstones: effect of capillary number on microstructure of residual oil, (Tech. Paper SPE 13213) SPERE Aug. 88, 902-912
Of transverse dispersion: slug-mode chemical EOR processes; stratified porous media, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Olefin sulfonate: behavior at high temperature and hardnesss: surfactants for EOR, (Tech. Paper SPE 14933) SPERE May 88, 597-603
Phase behavior of several CO2/west Texas reservoir-oil systems, (Tech. Paper SPE 13117) SPERE May 88, 505-516
Phase equilibria: SACROC oil/CO2 system, (Tech. Paper SPE 14923) SPERE Feb. 88, 103-111
Radioactive tracer: interpretation of results in steamdrive project, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287
Reaction of sodium hydroxide with reservoir minerals: role of silicate and aluminate ions in, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160
Reservoir rock: chromatographic transport of alkaline buffer through, (Tech. Paper SPE 14295) SPERE Aug. 88, 849-856
Solvent requirements for a hydrocarbon miscible flood: re-evaluation of, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234
Steady-state tar/water relative permeabilities: Peace River cores at elevated temperature, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80
Subcritical CO2/brine floods: dynamics of; heavy-oil recovery, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44
Surface tension of reservoir crude-oil/gas systems recognizing asphalt in heavy fraction, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272
Surfactant flooding: investigation at high temperature, (Tech. Paper SPE 13071) SPERE May 88, 586-596
Surfactant transport through porous media: steam-foam processes, (Tech. Paper SPE 14391) SPERE Nov. 88, 1177-1185
Three-phase relative permeability: new X-ray absorption method for measurement of, (Tech. Paper SPE 14420) SPERE Feb. 88, 199-206
Vapor-density measurement for estimating minimum miscibility pressure, (Tech. Paper SPE 15403) SPERE Nov. 88, 1215-1220
Viscosity measurements in presence of wall slip: capillary, Coette, and parallel-disk geometries, (Tech. Paper SPE 14696) SPERE May 88, 735-742
Viscous-fingering dynamics: rate dependence of unstable waterfloods, (Tech. Paper SPE 14368) SPERE May 88, 401-409
Volumetric predictions improvement: by three-parameter modification of Peng-Robinson equation of state, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040
Waterflood residual gas saturation: its production by blowdown, (Tech. Paper SPE 15455) SPERE May 88, 387-394
Waterflooding from two-dimensional layered sand model, (Tech. Paper SPE 13599) SPERE Feb. 88, 45-54
Wettabililty alteration: effect on water/oil relative permeability, dispersion, and flowable saturation in porous media, (Tech. Paper SPE 15019) SPERE May 88, 617-628

Levelland Field
See Texas

Liquids
Modeling of three-phase liquid/liquid equilibria, (Tech. Paper SPE 14936) SPERE Aug. 88, 1017-1024

Louisiana
Quarantine Bay field: 4RC CO2 WAG pilot project; postflood evaluation, (Tech. Paper SPE 15498) SPERE Aug. 88, 809-814

M

Maljamar Field
See New Mexico

Material Balance
Method for deriving interblock water/oil pseudofunctions for coarse-grid reservoir simulation, (Tech. Paper SPE 15621) SPERE Aug. 88, 977-984

Mathematical Programming
Conjugate-gradient-type iterative method: incomplete LU preconditioners for, (Tech. Paper SPE 13533) SPERE Feb. 88, 302-306

Matrix
Mineral and heavy-oil systems: thermal cracking of, (Tech. Paper SPE 16269) SPERE Nov. 88, 1243-1250

Measurement
And application of multiple-contact phase behavior: mixtures of CO2 and highly asphaltic crude, (Tech. Paper SPE 14438) SPERE May 88, 701-710
And correlation of diffusion coefficients: CO2 and rich-gas applications, (Tech. Paper SPE 15391) SPERE May 88, 517-523
And correlations of physical properties: CO2/heavy-crude-oil mixtures, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
And models: diffusion of CO2 at reservoir conditions, (Tech. Paper SPE 14897) SPERE Feb. 88, 93-102
Multiple-contact phase equilibrium: of several CO2/west Texas reservoir-oil systems, (Tech. Paper SPE 13117) SPERE May 88, 505-516
Of concentration and molecular weight of some EOR polymers: size-exclusion chromatography in, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841
Of heterogeneity: influence of sample size and permeability distribution on, (Tech. Paper SPE 15434) SPERE May 88, 629-637
Of three-phase relative permeability: new X-ray absorption method for, (Tech. Paper SPE 14420) SPERE Feb. 88, 199-206
Of viscosity: in prersence of wall slip in capillary, Couette, and parallel-disk geometries, (Tech. Paper SPE 14696) SPERE May 88, 735-742

Micellar Systems
And polymer flood; evaluation of Wilmington field project, (Tech. Paper SPE 12681) SPERE May 88, 609-616
Chemically enhanced oil recovery: effects of reservoir heterogeneity on, (Tech. Paper SPE 14889) SPERE May 88, 479-488
Crude-oil-sulfonate/nonionic-cosurfactant fluid: laboratory evaluation of, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808

Microbial Systems
Evaluation in porous media for EOR, (Tech. Paper SPE 16284) SPERE May 88, 489-495

Microemulsions
Phase behavior: empirical model for, (Tech. Paper SPE 14909) SPERE Aug. 88, 1002-1016
To liquid-crystal transition: two anionic surfactant systems, (Tech. Paper SPE 15653) SPERE Aug. 88, 791-800

Microstructure
Of residual oil in strongly water-wet sandstones: effect of capillary number on, (Tech. Paper SPE 13213) SPERE Aug. 88, 902-912
Middle East
Tarmat reservoirs: bottomwater drive in, (Tech. Paper SPE 15687) SPERE May 88, 395-400
Minerals
Matrix and heavy-oil systems: thermal cracking of, (Tech. Paper SPE 16269) SPERE Nov. 88, 1243-1250
Reservoir: reaction of sodium hydroxide with; role of silicate and aluminate ions in, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160
Minimum Miscibility Pressure (MMP)
In CO2 flooding of petroleum reservoirs: thermodynamic correlation for, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92
Of vaporizing gas drive: prediction of, (Tech. Paper SPE 15075) SPERE Feb. 88, 182-198
Prediction with equations of state, (Tech. Paper SPE 15677) SPERE May 88, 559-564
Vapor-density measurement for estimating, (Tech. Paper SPE 15403) SPERE Nov. 88, 1215-1220
Miscible Displacement
Gravity-assisted, multiple-contact CO2 flooding: mechanistic study, (Tech. Paper SPE 14895) SPERE May 88, 524-532
Hydrocarbon flood: re-evaluation of solvent requirements, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234
In laboratory cores: effect of pore structure on, (Tech. Paper SPE 15017) SPERE Aug. 88, 857-866
Multiple-contact: solubility and extraction in; comparison of N2 and CO2 flow visualization experiments, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219
Of hydrocarbons: pseudocomponent characterization for, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883
Of viscous fingering: approximate model with physically interpretable parameters for representing, (Tech. Paper SPE 13166) SPERE May 88, 551-558
Rainbow vertical hydrocarbon flood: radioactive tracers monitor solvent spreading, (Tech. Paper SPE 14440) SPERE Feb. 88, 273-280
Unstable: flow through porous media; use of Monte Carlo method to simulate, (Tech. Paper SPE 17474) SPERE Nov. 88, 1129-1136
Mixing
Macroscopic dispersion: heterogeneous reservoir, (Tech. Paper SPE 14364) SPERE Feb. 88, 139-148
Proposed rule: for hydrocarbon miscible displacement; pseudocomponent characterization of, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883
Mixtures
Methane/propane: influence of interfacial tension on gas/oil relative permeability; gas-condensate system, (Tech. Paper SPE 11740) SPERE Feb. 88, 257-264
Of CO2 and highly asphaltic crude: multiple-contact phase behavior meaurement and application, (Tech. Paper SPE 14438) SPERE May 88, 701-710
Of CO2/heavy-crude-oil: measurements and correlations of physical properties of, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
Mobility
Phase: and coalescence in foams flowing through porous media; effects of capillary pressure on, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926
Mobilization
And entrapment of residual oil in bead packs, (Tech. Paper SPE 14423) SPERE Aug. 88, 927-934
Models
3D, multiphase, multicomponent compositional: chemically enhanced oil recovery; effects of resrvoir heterogeneity on, (Tech. Paper SPE 14889) SPERE May 88, 479-488
Absorption kinetic: dissolution and condensation of silica in alkaline solution, (Tech. Paper SPE 13601) SPERE May 88, 743-752
Analytical: for determination of relative permeabilities; pressure-history-matching method, (Tech. Paper SPE 13928) SPERE May 88, 651-661
And measurements: diffusion of CO2 at reservoir conditions, (Tech. Paper SPE 14897) SPERE Feb. 88, 93-102
Capillary-orifice: porous-media momentum equation for highly accelerated flow, (Tech. Paper SPE 16202) SPERE Aug. 88, 1048-1052
Chemical equilibrium: use in simulating injection of incompatible water, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294
Chemical: reaction of sodium hydroxide with reservoir minerals; role of silicate and aluminate ions, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160
Coarsely gridded areal reservoir: material-balance method for deriving interblock water/oil pseudofunctions for simulation, (Tech. Paper SPE 15621) SPERE Aug. 88, 977-984
Coats-Smith: capacitance effects in porous media, (Tech. Paper SPE 16707) SPERE Nov. 88, 1207-1214
Coats-Smith: experimental investigation of interaction of phase behavior with microscopic heterogeneity; CO2 flood, (Tech. Paper SPE 14147) SPERE May 88, 662-672
Empirical: for microemulsion phase behavior, (Tech. Paper SPE 14909) SPERE Aug. 88, 1002-1016
Empirical: for viscous fingering with gravity effects; detailed validation, (Tech. Paper SPE 15993) SPERE May 88, 542-550
Foam flow: for population balance and generation by capillary snap-off; development of a mechanistic simulator, (Tech. Paper SPE 14961) SPERE Aug. 88, 884-892
Glass-bead packs: mechanisms of foam generation, (Tech. Paper SPE 15441) SPERE May 88, 573-585
Hele-Shaw: use in graded-viscosity-bank design with pseudoplastic fluids, (Tech. Paper SPE 14230) SPERE Nov. 88, 1221-1232
Integrated reservoir simulation for Troll field: application of unconventional techniques in constructing, (Tech. Paper SPE 15623) SPERE Aug. 88, 967-976
Kinetic: reaction kinetics of fuel formation for in-situ combustion, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316
Kinetics: study of hydrolytic stability of alkylethoxy sulfates, (Tech. Paper SPE 14912) SPERE Feb. 88, 235-242
Large-field and fine-grid: application of preconditioned conjugate-gradient-like methods in reservoir simulation, (Tech. Paper SPE 13532) SPERE Feb. 88, 295-301
Layered beadpack: transverse dispersion in slug-mode chemical EOR processes, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Local-equilibrium chromatographic: transport of alkaline buffers through reservoir rock, (Tech. Paper SPE 14295) SPERE Aug. 88, 849-856
Mathematical: of time-setting polymer gels in porous media, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Mathematical: relative permeabilities at simulated reservoir conditions, (Tech. Paper SPE 16970) SPERE Nov. 88, 1323-1327
Naturally fractured reservoirs: numerical simulation of, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122

Nodal system: boundary and crossflow behavior during displacement, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142
Numerical and physical: bottomwater drive in tarmat reservoirs, (Tech. Paper SPE 15687) SPERE May 88, 395-400
Numerical, of fluid flow: estimation of effective permeabilities in lower Stevens formation of Paloma field, San Joaquin Valley, California, (Tech. Paper SPE 15907) SPERE Nov. 88, 1301-1307
Numerical: field-scale in-situ combustion simulator with channeling considerations, (Tech. Paper SPE 13220) SPERE May 88, 419-430
Numerical: for minimum miscibility pressure prediction; equations of state usage, (Tech. Paper SPE 15677) SPERE May 88, 559-564
Numerical: mechanisms of residual oil displacement by steam injection, (Tech. Paper SPE 16333) SPERE Nov. 88, 1233-1242
Numerical: tarmat bahavior under water injection; reservoir with two intersecting faults; discussion of, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov. 88, 1332
Numerical: tarmat behavior under water injection; reservoir with two intersecting faults, (Tech. Paper SPE 15981) SPERE Feb. 88, 207-212
Of C7+ fraction in equation of state calculations: use of semicontinuous description, (Tech. Paper SPE 14925) SPERE Aug. 88, 1041-1047
Of tarmats: analysis and evaluation of alternative concepts to conform to laboratory investigations and field conditions, (Tech. Paper SPE 15689) SPERE Nov. 88, 1109-1113
Of viscous fingering: with physically interpretable parameters for representing miscible displacement, (Tech. Paper SPE 13166) SPERE May 88, 551-558
Performance-predictive: simplified for in-situ combustion processes, (Tech. Paper SPE 14242) SPERE May 88, 410-418
Pseudo-first-order kinetics: rock dissolution and consumption phenomena; alkaline recovery system, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68
Random Scission: for chemical degradation of polymer solutions, (Tech. Paper SPE 15197) SPERE Feb. 88, 349-352
Reservoir and fluid: steamflood performance study; effects of shutting in injectors, (Tech. Paper SPE 16349) SPERE Aug. 88, 945-952
Reservoir and fluid: steamflood strategies for a steeply dipping reservoir, (Tech. Paper SPE 15089) SPERE May 88, 431-439
Reservoir: thermal compositional simulator; implementation of improved adaptive-implicit method, (Tech. Paper SPE 16028) SPERE Nov. 88, 1123-1128
Reservoir: to evaluate a pilot test; in-situ combustion in Lower Hospah formation, McKinley County, New Mexico, (Tech. Paper SPE 14917) SPERE May 88, 440-448
Scaled: heavy-oil recovery; dynamics of subcritical CO2/brine floods, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44
Stress/strain: steam stimulation of Cold Lake oil sands; analysis and implications of in-situ stress changes, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61
Theoretical: phase-behavior correlation for high-salinity surfactant formulations, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790
Three-phase liquid/liquid equibria, (Tech. Paper SPE 14936) SPERE Aug. 88, 1017-1024
Two-dimensional layered sand: experimental study of waterflooding, (Tech. Paper SPE 13599) SPERE Feb. 88, 45-54
Water influx: calculation for bottomwater-drive reservoirs, (Tech. Paper SPE 13170) SPERE May 88, 369-379
With and without capillary effect: some invariant solutions to two-phase fluid displacement problems, (Tech. Paper SPE 14874) SPERE May 88, 691-700
analytic: for analyzing effects of dissociation of hydrates on thermal recovery of heavy oils, (Tech. Paper SPE 14224) SPERE May 88, 449-456
computer: viscous-fingering dynamics analysis; rate dependence of unstable waterfloods, (Tech. Paper SPE 14368) SPERE May 88, 401-409

Molecular Weight
Of some EOR polymers: size-exclusion chromatography in, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841

Momentum
Equation: for highly accelerated flow in porous media, (Tech. Paper SPE 16202) SPERE Aug. 88, 1048-1052

Monte Carlo Techniques
Use in estimation of effective permeabilities: lower Stevens formation of Paloma field, San Joaquin Valley, California, (Tech. Paper SPE 15907) SPERE Nov. 88, 1301-1307
Use to simulate unstable miscible and immiscible flow through porous media, (Tech. Paper SPE 17474) SPERE Nov. 88, 1129-1136

N

Natural Gas
Cyclic operation of storage reservoirs: thermal effects in, (Tech. Paper SPE 16864) SPERE Nov. 88, 1295-1300

New Mexico
Maljamar field: CO2/crude-oil and CO2/tetradecane systems: effect of an aqueous phase on, (Tech. Paper SPE 15400) SPERE May 88, 533-541
Maljamar field: diffusion of CO2 at reservoir conditions; models and measurements, (Tech. Paper SPE 14897) SPERE Feb. 88, 93-102
South Hospah field: in-situ combustion in the Lower Hospah formation, (Tech. Paper SPE 14917) SPERE May 88, 440-448

Nitrogen
And CO2: solubility and extraction in multiple-contact miscible displacement; comparison of flow visualization experiments, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219
CO2 injection: interpretation of injection field test; moderately fractured carbonate reservoir, (Tech. Paper SPE 14942) SPERE Feb. 88, 220-226
Displacements: compositional effects when gravity dominated, (Tech. Paper SPE 14416) SPERE Aug. 88, 867-874

Nodal Analysis
Of boundary and crossflow behavior during displacement in nodal systems, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142

North Sea
Delineation and evaluation of a reservoir containing near-criticai fluids, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848
Gas condensate: testing three-parameter modification of Peng-Robinson equation of state to improve volumetric predictions, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040

Magnus field: surfactant stimulation of water-injection wells, (Tech. Paper SPE 13980) SPERE Feb. 88, 165-174
Skjold field, Danish: early evaluations of oil recovery through water imbibition in fractured reservoir, (Tech. Paper SPE 15569) SPERE Feb. 88, 17-22
Northeast Purdy Unit
See Oklahoma
Norway
Troll offshore field: application of unconventional techniques in constructing an integrated reservoir simulation model, (Tech. Paper SPE 15623) SPERE Aug. 88, 967-976
Nuclear Salinity Logging
For application of preconditioned conjugate-gradient-like methods in reservoir simulation, (Tech. Paper SPE 13532) SPERE Feb. 88, 295-301
Numerical Solutions
Adaptive-implicit method: implementation improved in thermal compositional simulator, (Tech. Paper SPE 16028) SPERE Nov. 88, 1123-1128
Application of boundary integral method to immiscible displacement problems, (Tech. Paper SPE 15136) SPERE Aug. 88, 1069-1077
Application of preconditioned conjugate-gradient-like methods in reservoir simulation, (Tech. Paper SPE 13532) SPERE Feb. 88, 295-301
Chemical degradation of polymer solutions: random-scission model for, (Tech. Paper SPE 15197) SPERE Feb. 88, 349-352
Conjugate-gradient-type iterative methods: incomplete LU preconditioners for, (Tech. Paper SPE 13533) SPERE Feb. 88, 302-306
Diffusion of CO2 at reservoir conditions: models and measurements, (Tech. Paper SPE 14897) SPERE Feb. 88, 93-102
Dispersion and reservoir heterogeneity, (Tech. Paper SPE 14364) SPERE Feb. 88, 139-148
EOS predictions of compressibility and phase behavior: systems containing water, hydrocarbons, and CO2, (Tech. Paper SPE 15674) SPERE May 88, 673-684
Effect of aquifer size on performance: partial waterdrive gas reservoirs, (Tech. Paper SPE 13233) SPERE May 88, 380-386
Effects of dissociation of hydrates on thermal recovery of heavy oils; analytic model for analyzing, (Tech. Paper SPE 14224) SPERE May 88, 449-456
For analysis of upstream differencing, (Tech. Paper SPE 14045) SPERE Aug. 88, 1053-1056
For degasification of coal seams: comparative evaluation of vertical and horizontal wells for, (Tech. Paper SPE 13091) SPERE May 88, 720-734
For determination of relative permeabilities: pressure-history-matching method, (Tech. Paper SPE 13928) SPERE May 88, 651-661
Gas backpressure equation: estimating reservoir parameters from; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18725) SPERE Nov. 88, 1330
Gas backpressure equation: estimating reservoir parameters from; discussion of, (Tech. Paper, Discussion SPE 18599) SPERE Nov. 88, 1328
Gas backpressure equation: estimating reservoir parameters from; discussion of, (Tech. Paper, Discussion SPE 18608) SPERE Nov. 88, 1328-1330
Generalized Dkystra-Parsons method: statistical and dimensionless-time analog to, (Tech. Paper SPE 14523) SPERE Feb. 88, 313-319
Hot water and steamflood under laboratory conditions, (Tech. Paper SPE 15650) SPERE Feb. 88, 149-157
Hydrocarbon miscible flood: re-evaluation of solvent requirements, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234
Hydrocarbon volumetric phase behavior: comparative study of eight equations of state for predicting, (Tech. Paper SPE 15673) SPERE Feb. 88, 337-348
Improved streamline-generating technique that uses boundary element method, (Tech. Paper SPE 15135) SPERE Aug. 88, 1061-1068
In-situ combustion processes: simplified performance-predictive model for, (Tech. Paper SPE 14242) SPERE May 88, 410-418
In-situ combustion simulator with channeling considerations: field-scale study, (Tech. Paper SPE 13220) SPERE May 88, 419-430
In-situ stress changes: analysis and implications of; steam stimulation of Cold Lake oil sands, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61
Integrated reservoir simulation model for Troll field: application of unconventional techniques in constructing, (Tech. Paper SPE 15623) SPERE Aug. 88, 967-976
Interpretation of radioactive tracer results: steamdrive project, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287
Linear and weakly nonlinear stability analysis: investigations on viscous fingering by, (Tech. Paper SPE 14367) SPERE Nov. 88, 1268-1278
Matching aquifer performance and determining, (Tech. Paper SPE 16935) SPERE Aug. 88, 985-994
Material-balance method: deriving interblock water/oil pseudofunctions for coarse-grid reservoir simulation, (Tech. Paper SPE 15621) SPERE Aug. 88, 977-984
Minimum miscibility pressure of vaporizing gas drive: prediction of, (Tech. Paper SPE 15075) SPERE Feb. 88, 182-198
Modeliing C7+ fraction in equation of state calculations: use of semicontinuous description, (Tech. Paper SPE 14925) SPERE Aug. 88, 1041-1047
Modeling of three-phase liquid/liquid equilibria, (Tech. Paper SPE 14936) SPERE Aug. 88, 1017-1024
Momentum equation: for highly accelerated flow in porous media, (Tech. Paper SPE 16202) SPERE Aug. 88, 1048-1052
Nonlinear and linearized diffusion equations: comparison of solutions, (Tech. Paper SPE 17270) SPERE Nov. 88, 1202-1206
Of foam flow through porous media: population balance and generation by capillary snap-off; development of a mechanistic simulator, (Tech. Paper SPE 14961) SPERE Aug. 88, 884-892
Of minimum miscibility pressure: predictiion with equations of state, (Tech. Paper SPE 15677) SPERE May 88, 559-564
Of miscible viscous fingering: approximate model with physically interpretable parameters for representing, (Tech. Paper SPE 13166) SPERE May 88, 551-558
Peng-Robinson equation of state: three-parameter modification to improve volumetric predictions, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040
Polynomial approach to van Everdingen-Hurst dimensionless variables for water encroachment, (Tech. Paper SPE 15433) SPERE Feb. 88, 320-326
Regression-based method: estimating relative permeabilities from displacement experiments, (Tech. Paper SPE 15064) SPERE Aug. 88, 953-958
Reservoir flow equations: integral approach for discretizing, (Tech. Paper SPE 12727) SPERE May 88, 685-690

Reservoir simulation: block-preconditioned conjugate-gradient-like methods for, (Tech. Paper SPE 13534) SPERE Feb. 88, 307-312

Rock dissolution and consumption phenomena: alkaline recovery system, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68

Simulation of naturally fractured petroleum reservoir: multiple-porosity method, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336

Simulation of naturally fractured reservoirs, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122

Tarmat behavior under water injection: reservoir with two intersecting faults, (Tech. Paper SPE 15981) SPERE Feb. 88, 207-212

Tarmat behavior under water injection: reservoir with two intersecting faults; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov. 88, 1332

Tarmat behavior under water injection: reservoir with two intersecting faults; discussion of, (Tech. Paper, Discussion SPE 18604) SPERE Nov. 88, 1331-1332

Two-phase fluid displacement: some invariant solutions to problems including capillary effect, (Tech. Paper SPE 14874) SPERE May 88, 691-700

Variable-metric methods: automatic history matching with, (Tech. Paper SPE 16977) SPERE Aug. 88, 995-1001

Water influx calculations: bottomwater-drive reservoirs, (Tech. Paper SPE 13170) SPERE May 88, 369-379

O

Offshore

Gas reservoirs: new method of matching aquifer performance and determining original gas in place, (Tech. Paper SPE 16935) SPERE Aug. 88, 985-994

Norway: Troll field; application of unconventional techniques in constructing an integrated reservoir simulation model, (Tech. Paper SPE 15623) SPERE Aug. 88, 967-976

Oil

And water: material-balance method for deriving interblock pseudofunctions for coarse-grid reservoir simulation, (Tech. Paper SPE 15621) SPERE Aug. 88, 977-984

And water: simultaneous injection of; saturation distributions during displacements generated by, (Tech. Paper SPE 15198) SPERE Feb. 88, 130-138

CO2 system: phase equilibria in SACROC, (Tech. Paper SPE 14923) SPERE Feb. 88, 103-111

CO2/west Texas reservoir systems: phase behavior of, (Tech. Paper SPE 13117) SPERE May 88, 505-516

Flushing: and drilling-fluid invasion; use of tracers to investigate, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322

Heavy: and mineral matrix systems; thermal cracking of, (Tech. Paper SPE 16269) SPERE Nov. 88, 1243-1250

Heavy: effect of solvent on steam recovery of, (Tech. Paper SPE 14223) SPERE May 88, 457-465

Heavy: immiscible CO2 tertiary coreflood: analysis of data, (Tech. Paper SPE 14901) SPERE Feb. 88, 69-75

Heavy: thermal recovery of; analytic model for analyzing effects of dissociation of hydrates, (Tech. Paper SPE 14224) SPERE May 88, 449-456

Reservoir: CO2 displacements from long Berea cores: laboratory and simulation results, (Tech. Paper SPE 14306) SPERE May 88, 496-504

Sands: steam stimulation of Cold Lake field; analysis and implications of in-situ stress changes, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61

Spreading and nonspreading: effects on foam propagation through porous media, (Tech. Paper SPE 15668) SPERE Aug. 88, 893-896

Oil Fields

Hard brines: chromium (III) propionate; a crosslinking agent for water-soluble polymers in, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250

Oil Recovery

By hot water and steamflood: laboratory experiments under reservoir conditions, (Tech. Paper SPE 15650) SPERE Feb. 88, 149-157

CO2 flood:; economic evaluation of; Rock Creek field, West Virginia, (Tech. Paper SPE 15955) SPERE Aug. 88, 829-834

CO2 flooding: sweep improvement using foaming agents, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192

Calculations: solvent extraction approach from laboratory displacement tests, (Tech. Paper SPE 16322) SPERE Aug. 88, 1057-1060

Chemically enhanced: effects of reservoir heterogeneity on, (Tech. Paper SPE 14889) SPERE May 88, 479-488

During CO2 flooding: effect of WAG injection and rock wettability, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129

Enhanced in porous media: evaluation of microbial systems, (Tech. Paper SPE 16284) SPERE May 88, 489-495

Heavy: dynamics of subcritical CO2/brine floods, (Tech. Paper SPE 13598) SPERE Feb. 88, 35-44

Micellar/polymer flood: evaluation of Wilmington field project, (Tech. Paper SPE 12681) SPERE May 88, 609-616

Polymers: measurement of concentration and molecular weight; size-exclusion chromatography in, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841

Processes: chemical stability limits of water-soluble polymers, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34

Steamflood: effects of shutting in injectors on performance, (Tech. Paper SPE 16349) SPERE Aug. 88, 945-952

Through water imbibition in fractured reservoir: early evaluations of Skjold field, Danish North Sea, (Tech. Paper SPE 15569) SPERE Feb. 88, 17-22

Oklahoma

Crude oil and gas-condensate systems: testing three-parameter modification of Peng-Robinson equation of state to improve volumetric predictions, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040

Glenn Pool field: surfactant flood pilot test: Part 2--field operations, (Tech. Paper SPE 15551) SPERE Aug. 88, 771-777

Northeast Purdy unit, Garvin County: review of CO2 flood, Springer "A" sand, (Tech. Paper SPE 14938) SPERE Nov. 88, 1161-1167

P

PVT Behavior

Of CO2/heavy-hydrocarbons: effects of chemical type on phase behavior; experimental investigation, (Tech. Paper SPE 16272) SPERE May 88, 711-719

Paloma Field

See California

Parachors

For crude cuts: surface tension of reservoir crude-oil/gas systems recognizing asphalt in heavy fraction, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272

Parameters
Physically interpretable: for representing miscible viscous fingering, (Tech. Paper SPE 13166) SPERE May 88, 551-558
Reservoir: estimating from gas backpressure equation; author's reply to discussions of, (Tech. Paper, Rebuttal SPE 18725) SPERE Nov. 88, 1330
Reservoir: estimating from gas backpressure equation; discussion of, (Tech. Paper, Discussion SPE 18599) SPERE Nov. 88, 1328
Reservoir: estimating from gas backpressure equation; discussion of, (Tech. Paper, Discussion SPE 18608) SPERE Nov. 88, 1328-1330
Three: modification of Peng-Robinson equation of state to improve volumetric predictions, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040
Peace River Tar
Canada: steady-state tar/water relative permeabilities in cores at elevated temperature, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80
Pendant-Drop Technique
Surface tension of reservoir crude-oil/gas systems recognizing asphalt in heavy fraction, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272
Performance Predictions
Gas reservoirs: new method of matching aquifer performance and determining original gas in place, (Tech. Paper SPE 16935) SPERE Aug. 88, 985-994
Gas-well deliverability: simplified method for determining, (Tech. Paper SPE 14507) SPERE Aug. 88, 1090-1096
In-situ combustion processes: simplified model for, (Tech. Paper SPE 14242) SPERE May 88, 410-418
Permeability
Distribution: and sample size; influence on heterogeneity measures, (Tech. Paper SPE 15434) SPERE May 88, 629-637
Effective: estimation in lower Stevens formation of Paloma field, San Joaquin Valley, California, (Tech. Paper SPE 15907) SPERE Nov. 88, 1301-1307
Of brine: study of reduction in Berea sandstone with aluminum citrate process, (Tech. Paper SPE 13582) SPERE Aug. 88, 959-966
Petroleum
Naturally fractured reservoir: multiple-porosity method for simulation of, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336
Reservoirs: CO2 flooding of; thermodynamic correlation for minimum miscibility pressure, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92
Phase Behavior
And compressibility: EOS predictions of; systems containing water hydrocarbons, and CO2, (Tech. Paper SPE 15674) SPERE May 88, 673-684
Brent field: compositional effects in gravity-dominated nitrogen displacements, (Tech. Paper SPE 14416) SPERE Aug. 88, 867-874
Calculation with equations of state: minimum miscibility pressure prediction, (Tech. Paper SPE 15677) SPERE May 88, 559-564
Correlation: high-salinity surfactant formulations, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790
Hydrocarbon volumetric: comparative study of eight equations of state for predicting, (Tech. Paper SPE 15673) SPERE Feb. 88, 337-348
In SACROC oil/CO2 system, (Tech. Paper SPE 14923) SPERE Feb. 88, 103-111
Interaction with microscopic heterogeneity: experimental investigation of CO2 flood, (Tech. Paper SPE 14147) SPERE May 88, 662-672
Microemulsion to liquid-crystal transition: two anionic surfactant systems, (Tech. Paper SPE 15653) SPERE Aug. 88, 791-800
Microemulsion: empirical model for, (Tech. Paper SPE 14909) SPERE Aug. 88, 1002-1016
Multiple-contact: measurement and application with mixtures of CO2 and highly asphaltic crude, (Tech. Paper SPE 14438) SPERE May 88, 701-710
Of CO2 tetradecane and CO2/Maljamar-crude-oil systems: effect of an aqueous phase on, (Tech. Paper SPE 15400) SPERE May 88, 533-541
Of CO2/heavy hydrocarbon: effects of chemical types on; experimental investigation, (Tech. Paper SPE 16272) SPERE May 88, 711-719
Of CO2/west-Texas-reservoir-oil systems, (Tech. Paper SPE 13117) SPERE May 88, 505-516
Of crude-oil-sulfonate/nonionic-cosurfactant micellar fluid: laboratory evaluation of, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808
Troll field: integrated reservoir simulation model for; application of unconventional techniques in constructing, (Tech. Paper SPE 15623) SPERE Aug. 88, 967-976
Physical Properties
Of CO2/heavy-crude-oil mixtures: measurements and correlations of, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828
Pilot Study
Glenn Pool surfactant flood: Part 2--field operations, (Tech. Paper SPE 15551) SPERE Aug. 88, 771-777
Horizontal-well steam injection: Kern River field, California, (Tech. Paper SPE 16346) SPERE Aug. 88, 935-944
In-situ combustion test: Lower Hospah formation, McKinley County, New Mexico, (Tech. Paper SPE 14917) SPERE May 88, 440-448
Micellar/polymer flood: evaluation of Wilmington field project, (Tech. Paper SPE 12681) SPERE May 88, 609-616
Quarantine Bay 4RC CO2 WAG project: postflood evaluation, (Tech. Paper SPE 15498) SPERE Aug. 88, 809-814
Polyacrylamide
Chromium(VI)/thiourea solutions: effects of shear history on gelation, (Tech. Paper SPE 17472) SPERE Nov. 88, 1251-1256
Hydrolyzed solutions of: molecular degradation, injectivity, and elastic properties of, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201
Thermal stability limits: oil recovery chemical processes, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34
Polymers
And alkaline flood: strategy for design with Berea and reservoir-rock corefloods, (Tech. Paper SPE 14935) SPERE Nov. 88, 1143-1152
And aluminum citrate: injection of alternate slugs; study of reduction of brine permeability in Berea sandstone, (Tech. Paper SPE 13582) SPERE Aug. 88, 959-966
And micellar flood: evaluation of Wilmington field project, (Tech. Paper SPE 12681) SPERE May 88, 609-616
Augmented alkaline flood: update at Isenhour unit, Sublette County, Wyoming, (Tech. Paper SPE 14954) SPERE May 88, 604-608
EOR: measurement of concentration and molecular weight; size-exclusion chromatography in, (Tech. Paper SPE 14949) SPERE Aug. 88, 835-841
Molecular degradation, injectivity and elastic properties of solutions, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201

Solutions: chemical degradation of; random-scission model for, (Tech. Paper SPE 15197) SPERE Feb. 88, 349-352
Time-setting gels: experimental and theoretical investigation in porous media, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Water-soluble in hard oilfield brines: chromium (III) propionate, a crosslinking agent for, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250
Water-soluble: used in oil recovery processes; chemical stability limits of, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34

Pore Structure
Effect on miscible displacement in laboratory cores, (Tech. Paper SPE 15017) SPERE Aug. 88, 857-866

Porosity
Multiple method: for simulation of naturally fractured petroleum reservoir, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336

Porous Media
Capacitance effects in, (Tech. Paper SPE 16707) SPERE Nov. 88, 1207-1214
Effect of wettability alteration on water/oil relative permeability, dispersion, and flowable saturation, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Evaluation of microbial systems for EOR, (Tech. Paper SPE 16284) SPERE May 88, 489-495
Flow stability of immiscible displacement: investigations on viscous fingering by linear and weakly nonlinear stability analysis, (Tech. Paper SPE 14367) SPERE Nov. 88, 1268-1278
Foam propagation through: effects of spreading and nonspreading oils on, (Tech. Paper SPE 15668) SPERE Aug. 88, 893-896
Foam stability investigation in: elevated temperatures, (Tech. Paper SPE 15647) SPERE May 88, 565-572
Foams flowing through: effects of capillary pressure on coalescence and phase mobilities in, (Tech. Paper SPE 15442) SPERE Aug. 88, 919-926
Momentum equation for highly accelerated flow, (Tech. Paper SPE 16202) SPERE Aug. 88, 1048-1052
Polymer rheology in: molecular degradation, injectivity, and elastic properties of polymer solutions, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201
Pressure behavior during flow of slightly compressible fluid through: comparison of solutions of nonlinear and linearized diffusion equations, (Tech. Paper SPE 17270) SPERE Nov. 88, 1202-1206
Reservoir flow equations in: integral approach for discretizing, (Tech. Paper SPE 12727) SPERE May 88, 685-690
Stratified: transverse dispersion in Chemical EOR processes; stratified porous media, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Surfactant transport through: steam-foam processes, (Tech. Paper SPE 14391) SPERE Nov. 88, 1177-1185
Time-settng polymer gels in: experimental and theoretical investigation of, (Tech. Paper SPE 14959) SPERE Nov. 88, 1257-1267
Unstable miscible and immiscible flow through: use of Monte Carlo method to simulate, (Tech. Paper SPE 17474) SPERE Nov. 88, 1129-1136

Pressure Behavior
And history-matching method: determination of relative permeabilities, (Tech. Paper SPE 13928) SPERE May 88, 651-661
During flow of slightly compressible fluid through porous media: comparison of solutions of nonlinear and linearized diffusion equations, (Tech. Paper SPE 17270) SPERE Nov. 88, 1202-1206
Long-term variations of natural gas: thermal effects in cyclic operation of storage reservoirs, (Tech. Paper SPE 16864) SPERE Nov. 88, 1295-1300
Salt, gas, and temperature: effects on water compressibility, (Tech. Paper SPE 13174) SPERE Feb. 88, 175-181

Production
By blowdown: of waterflood residual gas saturation; experimental studies, (Tech. Paper SPE 15455) SPERE May 88, 387-394
Of foam during steam displacement of aqueous surfactants, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Operation and facilities: review of CO2 flood, Springer sand "A", Northeast Purdy Unit, Garvin County, Oklahoma, (Tech. Paper SPE 14938) SPERE Nov. 88, 1161-1167
Operations: Glenn Pool surfactant flood pilot test, (Tech. Paper SPE 15551) SPERE Aug. 88, 771-777

Propagation
Of foam through porous media: effects of spreading and nonspreading oils on, (Tech. Paper SPE 15668) SPERE Aug. 88, 893-896

Properties
Elastic: and injectivity and molecular degradation of polymer solutions, (Tech. Paper SPE 15652) SPERE Nov. 88, 1193-1201
Thermodynamic: of displacing and displaced fluids; prediction of minimum miscibility pressure, (Tech. Paper SPE 15075) SPERE Feb. 88, 182-198

Pseudocomponents
Characterization for hydrocarbon miscible displacement, (Tech. Paper SPE 15404) SPERE Aug. 88, 875-883
Estimating compositional data from lumped information: inverse lumping, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089
Proper choice in empirical model for microemulsion phase behavior, (Tech. Paper SPE 14909) SPERE Aug. 88, 1002-1016
Selecting to model C7+ fraction in equation of state calculations: use of semicontinuous description, (Tech. Paper SPE 14925) SPERE Aug. 88, 1041-1047

Pseudoplastic
Fluids: graded-viscosity-bank design with, (Tech. Paper SPE 14230) SPERE Nov. 88, 1221-1232

Pyrolysis
Reaction kinetics of fuel formation for in-situ combustion, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316

Q

Quarantine Bay Field
See Louisiana

R

Radioactivity
Tracer: interpretation of results in steamdrive project, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287
Tracers monitor solvent spreading: Rainbow vertical hydrocarbon miscible flood, (Tech. Paper SPE 14440) SPERE Feb. 88, 273-280

Rainbow Keg River Pool B
See Canada

Rangely Field
See Colorado

Recovery Methods
Alkaline system: rock dissolution and consumption phenomena, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68

Regression Analysis
Method for estimating relative permeabilities from displacement experiments, (Tech. Paper SPE 15064) SPERE Aug. 88, 953-958
Relative Permeability
At simulated reservoir conditions, (Tech. Paper SPE 16970) SPERE Nov. 88, 1323-1327
Determination of: pressure-history-matching method for, (Tech. Paper SPE 13928) SPERE May 88, 651-661
Estimating from displacement experiments: regression-based method for, (Tech. Paper SPE 15064) SPERE Aug. 88, 953-958
Gas/oil: influence of interfacial tension on; gas-condensate system, (Tech. Paper SPE 11740) SPERE Feb. 88, 257-264
Tar/water, steady-state: Peace River cores at elevated temperature, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80
Three-phase: new X-ray absorption method for measurement of, (Tech. Paper SPE 14420) SPERE Feb. 88, 199-206
Relative Permeability Ratio
Water/oil: in porous media; effect of wettability alteration on, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Reservoir Rocks
Chromatographic transport of alkaline buffers through, (Tech. Paper SPE 14295) SPERE Aug. 88, 849-856
Corefloods: and Berea; strategy for alkaline/polymer flood design, (Tech. Paper SPE 14935) SPERE Nov. 88, 1143-1152
Reservoir Simulation
Application of preconditioned conjugate-gradient-like methods, (Tech. Paper SPE 13532) SPERE Feb. 88, 295-301
Coarse-grid: material-balance method for deriving interblock water/oil pseudofunctions for coarse-grid reservoir simulation, (Tech. Paper SPE 15621) SPERE Aug. 88, 977-984
Immiscible displacement problems: application of boundary integral method to, (Tech. Paper SPE 15136) SPERE Aug. 88, 1069-1077
Integrated model for Troll field: application of unconventional techniques in constructing, (Tech. Paper SPE 15623) SPERE Aug. 88, 967-976
Numerical: block-preconditioned conjugate-gradient-like methods for, (Tech. Paper SPE 13534) SPERE Feb. 88, 307-312
Reservoirs
Automatic history matching with variable-metric methods, (Tech. Paper SPE 16977) SPERE Aug. 88, 995-1001
Bottomwater drive: calculation of water influx for, (Tech. Paper SPE 13170) SPERE May 88, 369-379
Condition: predicting PV compressibility from hydrostatic-stress laboratory data, (Tech. Paper SPE 14213) SPERE Aug. 88, 1078-1082
Crude-oil/gas systems: surface tension of recognizing asphalt in heavy fraction, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272
Flow equations: integral approach for discretizing, (Tech. Paper SPE 12727) SPERE May 88, 685-690
Heterogeneous: macroscopic dispersion in, (Tech. Paper SPE 14364) SPERE Feb. 88, 139-148
High-clay-content: characterization and control of formation damage during waterflooding, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286
Homogeneous, having irregular boundaries: improved streamline-generating technique that uses boundary element method, (Tech. Paper SPE 15135) SPERE Aug. 88, 1061-1068
North Sea containing near-critical fluids: delineation and evaluation of, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848
Numerical simulation: block-preconditioned conjugate-gradient-like methods for, (Tech. Paper SPE 13534) SPERE Feb. 88, 307-312
One-dimensional tilted: analysis of upstream differencing, (Tech. Paper SPE 14045) SPERE Aug. 88, 1053-1056
Petroleum: CO2 flooding of; thermodynamic correlation for minimum miscibility pressure, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92
Steeply dipping: steamflood strategies for a reservoir with, (Tech. Paper SPE 15089) SPERE May 88, 431-439
Storage: thermal effects in cyclic operation of, (Tech. Paper SPE 16864) SPERE Nov. 88, 1295-1300
Tarmat: bottomwater drive in, (Tech. Paper SPE 15687) SPERE May 88, 395-400
Tarmats: analysis and evaluation of alternative concepts in modeling to conform to laboratory investigations and field conditions, (Tech. Paper SPE 15689) SPERE Nov. 88, 1109-1113
Residual Gas Saturation
Waterflood: and its production by blowdown; experimental studies, (Tech. Paper SPE 15455) SPERE May 88, 387-394
Residual Oil
Displacement: mechanisms by steam displacement, (Tech. Paper SPE 16333) SPERE Nov. 88, 1233-1242
In bead packs: entrapment and mobilization of, (Tech. Paper SPE 14423) SPERE Aug. 88, 927-934
In strongly water-wet sandstones: effect of capillary number on microstructure of, (Tech. Paper SPE 13213) SPERE Aug. 88, 902-912
Rock Creek Field
See West Virginia
Rocks
Dissolution and consumption phenomena: alkaline recovery system, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68
Rumania
Suplacu de Barcau field: simplified performance-predictive model for in-situ combustion processes, (Tech. Paper SPE 14242) SPERE May 88, 410-418

S

SACROC Unit
See Texas
Salinity
High: of surfactant formulations; phase-behavior correlation for, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790
Salts
Gas, temperature, and pressure: effects on water compressibility, (Tech. Paper SPE 13174) SPERE Feb. 88, 175-181
Sampling
Influence of sample size and permeability distribution on heterogeneity measures, (Tech. Paper SPE 15434) SPERE May 88, 629-637
San Ardo Field
See California
San Joaquin Valley
See California
Sand
Kern River reservoir: reaction of sodium hydroxide with reservoir minerals; role of silicate and aluminate ions in, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160

Model: two-dimensional layered; experimental study of waterflooding, (Tech. Paper SPE 13599) SPERE Feb. 88, 45-54
Springer "A": review of CO2 flood, Northeast Purdy Unit, Garvin County, Oklahoma, (Tech. Paper SPE 14938) SPERE Nov. 88, 1161-1167
Unconsolidated: and sandstones with heavy hydrocarbons; effect of temperature on wave velocities in, (Tech. Paper SPE 15646) SPERE Feb. 88, 158-164

Sandstone
And sands with heavy hydrocarbons: effect of temperature on wave velocities in, (Tech. Paper SPE 15646) SPERE Feb. 88, 158-164
Berea: study of permeability reduction with aluminum citrate process, (Tech. Paper SPE 13582) SPERE Aug. 88, 959-966
Water-wet, strongly: effect of capillary number on microstructure of residual oil in, (Tech. Paper SPE 13213) SPERE Aug. 88, 902-912

Saturation
Distributions: during displacements generated by simultaneous injection of oil and water, (Tech. Paper SPE 15198) SPERE Feb. 88, 130-138
Flowable: in porous media; effect of wettability alteration on, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Measurement: new X-ray absorption method for three-phase relative permeability, (Tech. Paper SPE 14420) SPERE Feb. 88, 199-206
Of crude oil with CO2: density of mixtures, (Tech. Paper SPE 16350) SPERE Aug. 88, 815-821
Water, low: use of water-vapor desorption data in determination of capillary pressures, (Tech. Paper SPE 16286) SPERE Aug. 88, 913-918

Scale
Formation in waterflooding: chemical equilibrium models use in simulating injection of incompatible waters, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294

Sensitivity Coefficient
Steam: effects of shutting in injectors on flood performance, (Tech. Paper SPE 16349) SPERE Aug. 88, 945-952

Silica
In alkaline solution: dissolution and condensation of, (Tech. Paper SPE 13601) SPERE May 88, 743-752

Simulation
Estimating compositional data from lumped information: inverse lumping, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089
Numerical, of faulted boundaries: displacement in nodal systems, (Tech. Paper SPE 16972) SPERE Nov. 88, 1137-1142
Numerical: of naturally fractured reservoirs, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122
Of injection of incompatible waters: use of chemical equilibrium models, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294
Of naturally fractured petroleum reservoirs: multiple-porosity method for, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336
Of naturally fractured reservoirs, (Tech. Paper SPE 14110) SPERE May 88, 638-648
Of steamflood performance: effects of shutting in injectors, (Tech. Paper SPE 16349) SPERE Aug. 88, 945-952
Of unstable miscible and immiscible flow through porous media: use of Monte Carlo method, (Tech. Paper SPE 17474) SPERE Nov. 88, 1129-1136
Of viscous fingering with gravity effects: detailed validation of an empirical model for, (Tech. Paper SPE 15993) SPERE May 88, 542-550
Results of CO2 displacements of reservoir oils from long Berea cores: also laboratory results, (Tech. Paper SPE 14306) SPERE May 88, 496-504

Simulator
1D study: simplified performance-predictive model; in-situ combustion processes, (Tech. Paper SPE 14242) SPERE May 88, 410-418
Compositional steamflood: strategies for a steeply dipping reservoir, (Tech. Paper SPE 15089) SPERE May 88, 431-439
Compositional thermal: effect of solvent on steam recovery of heavy oil, (Tech. Paper SPE 14223) SPERE May 88, 457-465
Compositional: for delineation and evaluation of a North Sea reservoir containing near-critical fluids, (Tech. Paper SPE 15856) SPERE Aug. 88, 842-848
In-situ combustion: field scale with channeling considerations, (Tech. Paper SPE 13220) SPERE May 88, 419-430
Mechanistic foam: development of; population balance and generation by capillary snap-off, (Tech. Paper SPE 14961) SPERE Aug. 88, 884-892
Micellar/polymer flooding: effects of reservoir heterogeneity on chemically enhanced oil recovery, (Tech. Paper SPE 14889) SPERE May 88, 479-488
Numerical: comparative evaluation of vertical and horizontal drainage wells for degasification of coal seams, (Tech. Paper SPE 13091) SPERE May 88, 720-734
Numerical: for mechanistic study of gravity-assisted CO2 flooding, (Tech. Paper SPE 14895) SPERE May 88, 524-532
Thermal compositional: implementation of improved adaptive-implicit method, (Tech. Paper SPE 16028) SPERE Nov. 88, 1123-1128
Thermal reservoir: horizontal-well steam pilot; Kern River field, California, (Tech. Paper SPE 16346) SPERE Aug. 88, 935-944

Skjold Field
See Denmark

Slip Effects
Viscosity measurements in presence of: capillary, Coette, and parallel-disk geometries, (Tech. Paper SPE 14696) SPERE May 88, 735-742

Slug Process
Steam recovery of heavy oil: effect of solvent on, (Tech. Paper SPE 14223) SPERE May 88, 457-465

Sodium Hydroxide
Silicate and aluminate ions role in reaction with reservoir minerals, (Tech. Paper SPE 16277) SPERE Nov. 88, 1153-1160

Solids
Suspended: specifications for water injection from coreflood tests, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294

Solubility
And extraction: in multiple-contact miscible displacement; comparison of N2 and CO2 flow visualization experiments, (Tech. Paper SPE 15079) SPERE Feb. 88, 213-219

Solvents
Effect on steam recovery of heavy oil, (Tech. Paper SPE 14223) SPERE May 88, 457-465
Extraction: approach to oil recovery calculations from laboratory displacement tests, (Tech. Paper SPE 16322) SPERE Aug. 88, 1057-1060
Requirements for a hydrocarbon miscible flood: re-evaluation of, (Tech. Paper SPE 15572) SPERE Feb. 88, 227-234

Spreading in Rainbow vertical hydrocarbon miscible flood: radioactive tracers monitor, (Tech. Paper SPE 14440) SPERE Feb. 88, 273-280

South Hospah Field
See New Mexico

Spacing
Foam stability at elevated temperatures: investigation in porous media, (Tech. Paper SPE 15647) SPERE May 88, 565-572

Specifications
Suspended solids: for water injection from coreflood tests, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294

Stability
Chemical: limits of water-soluble polymers used in oil recovery processes, (Tech. Paper SPE 13585) SPERE Feb. 88, 23-34
Hydrolytic: of alkylethoxy sulfates, (Tech. Paper SPE 14912) SPERE Feb. 88, 235-242
Linear and weakly nonlinear analysis: investigations on viscous fingering by, (Tech. Paper SPE 14367) SPERE Nov. 88, 1268-1278
Of foam: investigation in porous media at elevated temperatures, (Tech. Paper SPE 15647) SPERE May 88, 565-572
Of surfactants: laboratory investigation of high-temperature flooding, (Tech. Paper SPE 13071) SPERE May 88, 586-596
Test: of foaming agents for sweep improvement in CO2 flooding, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192

Steam Injection
Displacement of aqueous surfactants; foam production during, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Effect of solvent on recovery of heavy oil, (Tech. Paper SPE 14223) SPERE May 88, 457-465
Horizontal-well pilot: Kern River field, California, (Tech. Paper SPE 16346) SPERE Aug. 88, 935-944
Residual oil displacement by: mechanisms of, (Tech. Paper SPE 16333) SPERE Nov. 88, 1233-1242

Steamdrive
Interpretation of radioactive tracer results, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287

Steamflood
And hot waterfloods: laboratory experiments under reservoir conditions, (Tech. Paper SPE 15650) SPERE Feb. 88, 149-157
Foam generation: mechanisms in glass-bead packs, (Tech. Paper SPE 15441) SPERE May 88, 573-585
High-temperature surfactant flooding: laboratory investigation, (Tech. Paper SPE 13071) SPERE May 88, 586-596
Performance:; effects of shutting in injectors on, (Tech. Paper SPE 16349) SPERE Aug. 88, 945-952
Strategies for a steeply dipping reservoir, (Tech. Paper SPE 15089) SPERE May 88, 431-439

Stimulation
By surfactant: water-injection wells: Magnus field, North Sea, (Tech. Paper SPE 13980) SPERE Feb. 88, 165-174
Steam:-Cold Lake oil sands; analysis and implications of in-situ stress changes, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61

Storage
Reservoirs: thermal effects in cyclic operation of, (Tech. Paper SPE 16864) SPERE Nov. 88, 1295-1300

Stratification
Porous media: transverse dispersion in slug-mode chemical EOR processes, (Tech. Paper SPE 14890) SPERE May 88, 466-478
Vertical: generalized Dkystra-Parsons analysis; statistical and dimensionless-tiome analog to, (Tech. Paper SPE 14523) SPERE Feb. 88, 313-319

Stresses
Hydrostatic: from laboratory data; predicting reservoir-conditiion PV compressibility from, (Tech. Paper SPE 14213) SPERE Aug. 88, 1078-1082
In-situ: analysis and implications of changes during steam stimulation; Cold Lake oil sands, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61

Sulfonates
Crude oil: and nonionic-cosurfactant micellar fluid: laboratory evaluation of, (Tech. Paper SPE 15651) SPERE Aug. 88, 801-808
Oil/brine system: microemulsion phase behavior; empirical model for, (Tech. Paper SPE 14909) SPERE Aug. 88, 1002-1016
Olefin: behavior at high temperature and hardness; surfactants for EOR, (Tech. Paper SPE 14933) SPERE May 88, 597-603

Suplacu de Barcau Field
See Rumania

Surface Tension
Of reservoir crude-oil/gas systems recognizing asphalt in heavy fraction, (Tech. Paper SPE 13826) SPERE Feb. 88, 265-272

Surfactants
Alkylethoxy sulfates: hydrolytic stability of, (Tech. Paper SPE 14912) SPERE Feb. 88, 235-242
Aqueous: foam production during steam displacement of, (Tech. Paper SPE 16335) SPERE Aug. 88, 897-901
Flood pilot test: Glenn Pool field; Part 2--field operations, (Tech. Paper SPE 15551) SPERE Aug. 88, 771-777
Flooding: laboratory investigation at high temperature, (Tech. Paper SPE 13071) SPERE May 88, 586-596
For EOR: olefin sulfonate behavior at high temperature and hardness, (Tech. Paper SPE 14933) SPERE May 88, 597-603
High-salinity formulations: phase-behavior correlation for, (Tech. Paper SPE 14913) SPERE Aug. 88, 778-790
Selection of: for foam propagation through porous media; effect of spreading and nonspreading oils on, (Tech. Paper SPE 15668) SPERE Aug. 88, 893-896
Stimulation of water-injection wells: Magnus field, North Sea, (Tech. Paper SPE 13980) SPERE Feb. 88, 165-174
Transport through porous media in steam-foam processes, (Tech. Paper SPE 14391) SPERE Nov. 88, 1177-1185
Two anionic systems: microemulsion to liquid-crystal transition in, (Tech. Paper SPE 15653) SPERE Aug. 88, 791-800

Suspensions
Solids: specifications for water injection from coreflood tests, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294

Sweep Efficiency
Of CO2 flooding: use of foaming agents to improve, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192

Swelling
Effects of chemical type on: experimental investigation into CO2/heavy-hydrocarbon phase behavior, (Tech. Paper SPE 16272) SPERE May 88, 711-719
Factor: of crude oil saturated with CO2/crude-oil mixtures, (Tech. Paper SPE 16350) SPERE Aug. 88, 815-821
Of CO2/heavy-crude-oil mixtures: measurements and correlations of physical properties of, (Tech. Paper SPE 15080) SPERE Aug. 88, 822-828

T

Tarmat
- Behavior under water injection: reservoir with two intersecting faults, (Tech. Paper SPE 15981) SPERE Feb. 88, 207-212
- Behavior under water injection: reservoir with two intersecting faults; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov. 88, 1332
- Behavior under water injection: reservoir with two intersecting faults; discussion of, (Tech. Paper, Discussion SPE 18604) SPERE Nov. 88, 1331-1332
- Modeling of: analysis and evaluation of alternative concepts to conform to laboratory investigations and field conditions, (Tech. Paper SPE 15689) SPERE Nov. 88, 1109-1113
- Reservoirs: bottomwater drive in, (Tech. Paper SPE 15687) SPERE May 88, 395-400

Technology
- Of process: update of polymer-augmented alkaline flood; Isenhour unit, Sublette County, Wyoming, (Tech. Paper SPE 14954) SPERE May 88, 604-608

Temperature
- Effect on wave velocities in sands and sandstones with heavy hydrocarbons, (Tech. Paper SPE 15646) SPERE Feb. 88, 158-164
- Elevated: foam stability investigation in porous media, (Tech. Paper SPE 15647) SPERE May 88, 565-572
- Elevated: steady-state tar/water relative permeabilities; Peace River cores, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80
- High and hardness: olefin sulfonate behavior at; surfactants for EOR, (Tech. Paper SPE 14933) SPERE May 88, 597-603
- High: laboratory investigation of surfactant flooding, (Tech. Paper SPE 13071) SPERE May 88, 586-596
- Long-term variations of natural gas: thermal effects in cyclic operation of storage reservoirs, (Tech. Paper SPE 16864) SPERE Nov. 88, 1295-1300
- Salt, gas, and pressure: effects on water compressibility, (Tech. Paper SPE 13174) SPERE Feb. 88, 175-181

Ternary Diagrams
- Inverse lumping with: estimating compositional data from lumped information, (Tech. Paper SPE 14267) SPERE Aug. 88, 1083-1089

Tertiary Recovery
- Heavy-oil immiscible CO2 coreflood: analysis of data, (Tech. Paper SPE 14901) SPERE Feb. 88, 69-75

Testing
- Application of preconditioned conjugate-gradient-like methods in reservoir simulation, (Tech. Paper SPE 13532) SPERE Feb. 88, 295-301
- Conjugate-gradient-type iterative methods: incomplete LU preconditioners for, (Tech. Paper SPE 13533) SPERE Feb. 88, 302-306
- Dynamic consumption and rock dissolution: alkaline recovery system, (Tech. Paper SPE 12670) SPERE Feb. 88, 62-68
- Glenn Pool surfactant flood pilot: Part 2--field operations, (Tech. Paper SPE 15551) SPERE Aug. 88, 771-777
- Laboratory and fieldwide: sweep improvement in CO2 flooding using foaming agents, (Tech. Paper SPE 14392) SPERE Nov. 88, 1186-1192
- Laboratory displacement: solvent extraction approach to oil recovery calculations from, (Tech. Paper SPE 16322) SPERE Aug. 88, 1057-1060
- Numerical reservoir simulation: block-preconditioned conjugate-gradient-like methods for, (Tech. Paper SPE 13534) SPERE Feb. 88, 307-312
- Suspended solids specifications for water injection from corefloods, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294
- Variable-metric methods: automatic history matching with, (Tech. Paper SPE 16977) SPERE Aug. 88, 995-1001

Texas
- Levelland field: mechanistic study of gravity-assisted CO2 flooding, (Tech. Paper SPE 14895) SPERE May 88, 524-532
- SACROC field: mechanistic study of gravity-assisted CO2 flooding, (Tech. Paper SPE 14895) SPERE May 88, 524-532
- SACROC unit: phase equilibria in oil/CO2 system, (Tech. Paper SPE 14923) SPERE Feb. 88, 103-111
- West, reservoir oil systems and CO2: phase behavior of, (Tech. Paper SPE 13117) SPERE May 88, 505-516

Thermal Recovery of Oil
- Compositional simulator: implementation of improved adaptive-implicit method, (Tech. Paper SPE 16028) SPERE Nov. 88, 1123-1128
- Cracking of heavy-oil/mineral matrix systems, (Tech. Paper SPE 16269) SPERE Nov. 88, 1243-1250
- Effects of dissociation of hydrates on heavy oils: analytic model for analyzing, (Tech. Paper SPE 14224) SPERE May 88, 449-456
- Horizontal-well steam pilot: Kern River field, California, (Tech. Paper SPE 16346) SPERE Aug. 88, 935-944
- Hot water and steamflood: laboratory experiments under reservoir conditions, (Tech. Paper SPE 15650) SPERE Feb. 88, 149-157
- In-situ combustion processes: simplified performance-predictive model for, (Tech. Paper SPE 14242) SPERE May 88, 410-418
- In-situ combustion simulator: field-scale study with channeling considerations, (Tech. Paper SPE 13220) SPERE May 88, 419-430
- In-situ combustion: Lower Hospah formation, McKinley County, New Mexico, (Tech. Paper SPE 14917) SPERE May 88, 440-448
- In-situ combustion: reaction kinetics of fuel formation for, (Tech. Paper SPE 15736) SPERE Nov. 88, 1308-1316
- Steam injection: mechanisms of residual oil displacement by, (Tech. Paper SPE 16333) SPERE Nov. 88, 1233-1242
- Steam recovery of heavy oil: effect of solvent on, (Tech. Paper SPE 14223) SPERE May 88, 457-465
- Steam stimulation: analysis and implications of in-situ stress changes; Cold Lake oil sands, (Tech. Paper SPE 15173) SPERE Feb. 88, 55-61
- Steam-foam processes: surfactant transport through porous media, (Tech. Paper SPE 14391) SPERE Nov. 88, 1177-1185
- Steamdrive project: interpretation of radioactive tracer results, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287
- Steamflood: effects of shutting in injectors on performance, (Tech. Paper SPE 16349) SPERE Aug. 88, 945-952
- Steamflood: strategies for a steeply dipping reservoir, (Tech. Paper SPE 15089) SPERE May 88, 431-439
- Steamflooding: mechanisms of foam generation in glass-bead packs, (Tech. Paper SPE 15441) SPERE May 88, 573-585
- Surfactant flooding at high temperature: laboratory investigation, (Tech. Paper SPE 13071) SPERE May 88, 586-596

Thermodynamics
- Correlation for minimum miscibility pressure; CO2 flooding of petroleum reservoirs, (Tech. Paper SPE 14518) SPERE Feb. 88, 81-92

Properties: of displacing and displaced fluids; prediction of minimum miscibility pressure, (Tech. Paper SPE 15075) SPERE Feb. 88, 182-198

Tracers

Dispersion in porous media: capacitance effects in, (Tech. Paper SPE 16707) SPERE Nov. 88, 1207-1214

Radioactive: interpretation of results in steamdrive project, (Tech. Paper SPE 15092) SPERE Feb. 88, 281-287

Radioactive: monitor solvent spreading; Rainbow vertical hydrocarbon miscible flood, (Tech. Paper SPE 14440) SPERE Feb. 88, 273-280

Use to investigate drilling-fluid invasion and oil flushing during coring, (Tech. Paper SPE 16352) SPERE Nov. 88, 1317-1322

Transition Zone

Of microemulsion to liquid crystal: two anionic surfactant systems, (Tech. Paper SPE 15653) SPERE Aug. 88, 791-800

Transports

Chromatographic: of alkaline buffers through reservoir rock, (Tech. Paper SPE 14295) SPERE Aug. 88, 849-856

Troll Field

See North Sea

U

Upstream Differencing

Analysis of, (Tech. Paper SPE 14045) SPERE Aug. 88, 1053-1056

Utah

Anschutz Ranch East field: compositional gradients in, (Tech. Paper SPE 14412) SPERE Aug. 88, 1025-1032

V

Vapor Pressure

Use in determination of capillary pressures at low water saturations, (Tech. Paper SPE 16286) SPERE Aug. 88, 913-918

Vaporizing-Gas Drive

Minimum miscibility pressure prediction, (Tech. Paper SPE 15075) SPERE Feb. 88, 182-198

Prediction of minimum miscibility pressure of process: equations of state usage, (Tech. Paper SPE 15677) SPERE May 88, 559-564

Variable Metric Method

Automatic history matching with, (Tech. Paper SPE 16977) SPERE Aug. 88, 995-1001

Velocity

Critical in foam generation: mechanistic study in glass-bead packs, (Tech. Paper SPE 15441) SPERE May 88, 573-585

Wave: effect of temperature in sands and sandstones with heavy hydrocarbons, (Tech. Paper SPE 15646) SPERE Feb. 88, 158-164

Vertical Coverage (Vertical Sweep Efficiency)

Relationship to dimensionless time: generalized Dykstra-Parsons method, (Tech. Paper SPE 14523) SPERE Feb. 88, 313-319

Viscosity

Graded banks: design with pseudoplastic fluids, (Tech. Paper SPE 14230) SPERE Nov. 88, 1221-1232

Loss predictions: chemical degradation of polymer solutions; random-scission model for, (Tech. Paper SPE 15197) SPERE Feb. 88, 349-352

Measurements:; in presence of wall slip in capillary, Couette, and parallel-disk geometries, (Tech. Paper SPE 14696) SPERE May 88, 735-742

Viscous Flow

Fingering dynamics: rate dependence of unstable waterfloods, (Tech. Paper SPE 14368) SPERE May 88, 401-409

Fingering with gravity effects: detailed validation of an empirical model for, (Tech. Paper SPE 15993) SPERE May 88, 542-550

Miscible fingering: approximate model with physically interpretable parameters for representing, (Tech. Paper SPE 13166) SPERE May 88, 551-558

Volumetric Behavior

Peng-Robinson equation of state to improve predictions: three-parameter modifications of, (Tech. Paper SPE 13118) SPERE Aug. 88, 1033-1040

W

WAG Flooding

And rock wettability: effect on oil recovery during CO2 flooding, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129

CO2 pilot project: Quarantine Bay 4RC; postflood evaluation, (Tech. Paper SPE 15498) SPERE Aug. 88, 809-814

Immiscible CO2 field project: CO2 diversion with foam, (Tech. Paper SPE 14963) SPERE Feb. 88, 112-118

Water

And hydrocarbons and CO2 systems: EOS predictions of compressibility and phase behavior in, (Tech. Paper SPE 15674) SPERE May 88, 673-684

And oil: material-balance method for deriving interblock pseudofunctions for course-grid reservoir simulation, (Tech. Paper SPE 15621) SPERE Aug. 88, 977-984

And oil: simultaneous injection of; saturation distributions during displacements generated by, (Tech. Paper SPE 15198) SPERE Feb. 88, 130-138

And tar steady-state relative permeabilities: Peace River cores at elevated temperature, (Tech. Paper SPE 14227) SPERE Feb. 88, 76-80

Compressibility: effects of salt, gas, temperature, and pressure, (Tech. Paper SPE 13174) SPERE Feb. 88, 175-181

Encroachment: polynomial approach to van Everdingen-Hurst dimensionless variables, (Tech. Paper SPE 15433) SPERE Feb. 88, 320-326

Hot: and steamflood laboratory experiments under reservoir conditions, (Tech. Paper SPE 15650) SPERE Feb. 88, 149-157

Incompatible: chemical equilibrium models used in simulating injection of, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294

Injection wells: surfactant stimulation of; Magnus field, North Sea, (Tech. Paper SPE 13980) SPERE Feb. 88, 165-174

Injection: in reservoir with two intersecting faults; tarmat behavior under, (Tech. Paper SPE 15981) SPERE Feb. 88, 207-212

Injection: in reservoir with two intersecting faults; tarmat behavior under; author's reply to discussion of, (Tech. Paper, Rebuttal SPE 18742) SPERE Nov. 88, 1332

Injection: in reservoir with two intersecting faults; tarmat behavior under; discussion of, (Tech. Paper, Discussion SPE 18604) SPERE Nov. 88, 1331-1332

Injection: suspended solids specifications from coreflood tests, (Tech. Paper SPE 16256) SPERE Nov. 88, 1287-1294

Soluble polymers: in hard oilfield brines; chromium (III) propionate, a crosslinking agent for, (Tech. Paper SPE 15906) SPERE Feb. 88, 243-250
Strongly wet sandstones: effect of capillary number on microstructure of residual oil, (Tech. Paper SPE 13213) SPERE Aug. 88, 902-912

Water Influx
Bottomwater-drive reservoirs: calculation of, (Tech. Paper SPE 13170) SPERE May 88, 369-379
Gas reservoirs: new method of matching aquifer performance and determining original gas in place, (Tech. Paper SPE 16935) SPERE Aug. 88, 985-994

Water Saturation
Low: use of water-vapor desorption data in determination of capillary pressures at, (Tech. Paper SPE 16286) SPERE Aug. 88, 913-918

Water/Oil Ratio
Performance: numerical simulation of naturally fractured reservoirs, (Tech. Paper SPE 15627) SPERE Nov. 88, 1114-1122

Waterdrive
Partial: gas reservoirs; aquifer size effect on performance, (Tech. Paper SPE 13233) SPERE May 88, 380-386

Waterflooding
From two-dimensional layered sand model: experimental study, (Tech. Paper SPE 13599) SPERE Feb. 88, 45-54
Generalized Dykstra-Parsons method: statistical and dimensionless-time analog to, (Tech. Paper SPE 14523) SPERE Feb. 88, 313-319
Injection of incompatible waters: chemical equilibrium models use in simulating, (Tech. Paper SPE 14126) SPERE Feb. 88, 288-294
Of high-clay-content reservoir: characterization and control of formation damage during, (Tech. Paper SPE 16234) SPERE Nov. 88, 1279-1286
Of naturally fractured petroleum reservoirs: multiple-porosity method for simulation of, (Tech. Paper SPE 15129) SPERE Feb. 88, 327-336
Residual gas saturation and its production by blowdown: experimental studies, (Tech. Paper SPE 15455) SPERE May 88, 387-394
Unstable floods: rate dependence of, (Tech. Paper SPE 14368) SPERE May 88, 401-409

Well Pattern
Five-spot: design of graded viscosity banks of pseudoplastic fluids in, (Tech. Paper SPE 14230) SPERE Nov. 88, 1221-1232

Wellbore Mechanics
Of vertical and horizontal drainage wells: comparative evaluation for degasification of coal seams, (Tech. Paper SPE 13091) SPERE May 88, 720-734

West Virginia
Rock Creek field: economic evaluation of CO2 EOR flood, (Tech. Paper SPE 15955) SPERE Aug. 88, 829-834

Wettability
Alteratiion: effect on water/oil relative permeability, dispersion, and flowable saturatiion in porous media, (Tech. Paper SPE 15019) SPERE May 88, 617-628
Rock: and WAG injection: effect on oil recovery during CO2 flooding, (Tech. Paper SPE 15491) SPERE Feb. 88, 119-129

Wilmington Field
See California

Wyoming
Anschutz Ranch East field: compositional gradients in, (Tech. Paper SPE 14412) SPERE Aug. 88, 1025-1032
Isenhour field: update of polymer-augmented alkaline flood, (Tech. Paper SPE 14954) SPERE May 88, 604-608

X

X-Rays
Absorption method: new for measurement of three-phase relative permeability, (Tech. Paper SPE 14420) SPERE Feb. 88, 199-206